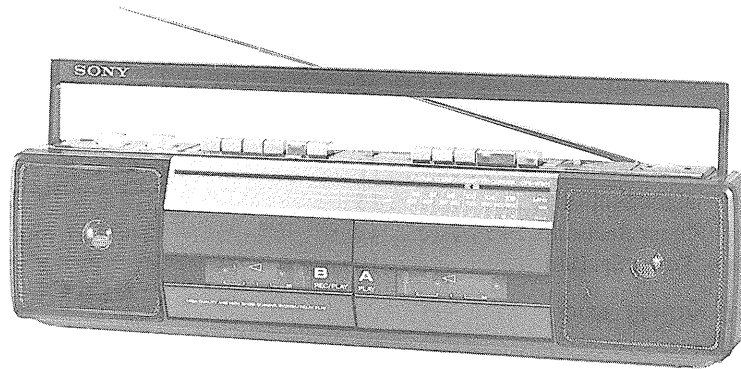


CFS-W301

SERVICE MANUAL

US Model
Canadian Model



SPECIFICATIONS

AUDIO POWER SPECIFICATIONS POWER OUTPUT AND TOTAL HARMONIC DISTORTION

With 3.2-ohm loads, both channels driven,
from 150 to 10,000 Hz; rated 1.7 W per
channel minimum RMS power, with no
more than 10% total harmonic distortion.

OTHER SPECIFICATIONS

Frequency range	FM 87.6–108 MHz AM 530–1605 kHz
Antennas	FM: Telescopic antenna AM: Built-in ferrite bar antenna
Frequency response	80–10,000 Hz
Speakers	Full-range: 10 cm (4 inches) dia. × 2
Power output	2.5 W + 2.5 W (with 10% harmonic distortion at AC operation)
Inputs	MIX MIC input jack (minijack) Mixing: sensitivity 4.4 mV for low impedance External mic: sensitivity 0.775 mV for low impedance
Outputs	Headphones jacks (stereo minijack) for 8–300 ohm impedance headphones
Power requirements	120 V AC, 60 Hz 9 V DC, six size D (R20) batteries
Power consumption	14 W in AC operation
Battery life	

Batteries	FM recording	
Sony SUM-1 (NS)	Approx. 15	
Sony AM1 alkaline	Approx. 26	(hours)

Dimensions	Approx. 530 × 145 × 122 mm (w/h/d) (20 7/8 × 5 3/8 × 4 7/8 inches) incl. projecting parts and controls, not incl. handle Approx. 3.5 kg (7 lb 11 oz) incl. batteries
Weight	
Accessory supplied	AC power cord (1)

Tape Transport	MF-W301 PB-75D (Deck A)
Mechanism Type	MF-W301 RP-75D (Deck B)

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK
⚠ ON THE SCHEMATIC DIAGRAMS AND IN THE
PARTS LIST ARE CRITICAL TO SAFE OPERATION.
REPLACE THESE COMPONENTS WITH SONY PARTS
WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS
MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

ATTENTION AU COMPOSANT AYANT RAPPORT À LA SÉCURITÉ!

LES COMPOSANTS IDENTIFIÉS PAR UNE TRAME ET
UNE MARQUE ⚠ SUR LES DIAGRAMMES SCHÉ-
MATIQUES ET LA LISTE DES PIÈCES SONT CRITIQUES
POUR LA SÉCURITÉ DE FONCTIONNEMENT. NE REM-
PLACER CES COMPOSANTS QUE PAR DES PIÈCES
SONY DONT LES NUMÉROS SONT DONNÉS DANS CE
MANUEL OU DANS LES SUPPLÉMENTS PUBLIÉS PAR
SONY.

FM/AM
STEREO CASSETTE-CORDER
SONY®



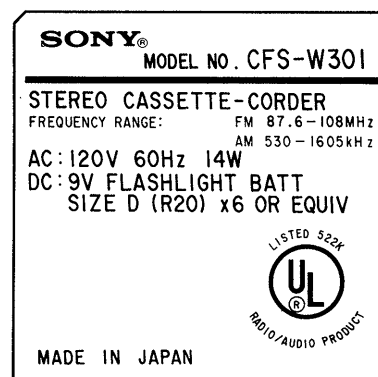
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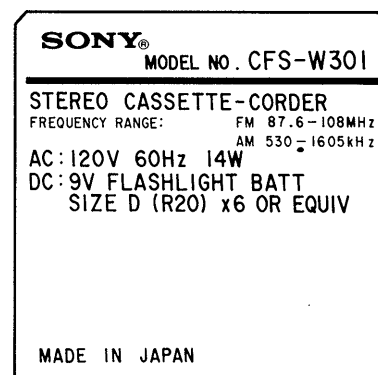
MODEL IDENTIFICATION

— Specification Label —

US model



Canadian model



SAFETY CHECK-OUT (US Model)

After correcting the original service problem, perform the following safety check before releasing the set to the customer:

Check the antenna terminals, metal trim, "metallized" knobs, screws, and all other exposed metal parts for AC leakage. Check leakage as described below.

LEAKAGE TEST

The AC leakage from any exposed metal part to earth ground and from all exposed metal parts to any exposed metal part having a return to chassis, must not exceed 0.5 mA (500 microamperes). Leakage current can be measured by any one of three methods.

1. A commercial leakage tester, such as the Simpson 229 or RCA WT-540A. Follow the manufacturers' instructions to use these instruments.
2. A battery-operated AC milliammeter. The Data Precision 245 digital multimeter is suitable for this job.

3. Measuring the voltage drop across a resistor by means of a VOM or battery-operated AC voltmeter. The "limit" indication is 0.75 V, so analog meters must have an accurate low-voltage scale. The Simpson 250 and Sanwa SH-63Trd are examples of a passive VOM that is suitable. Nearly all battery operated digital multimeters that have a 2V AC range are suitable. (See Fig. A)

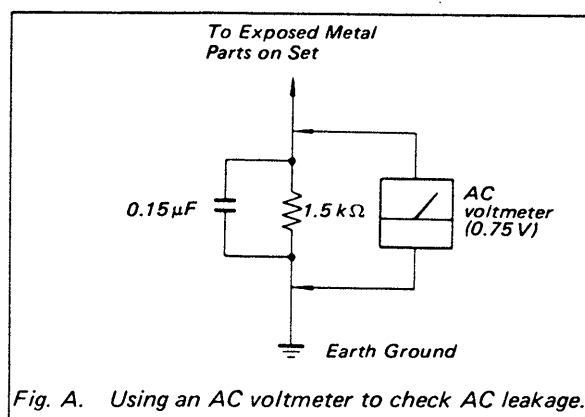
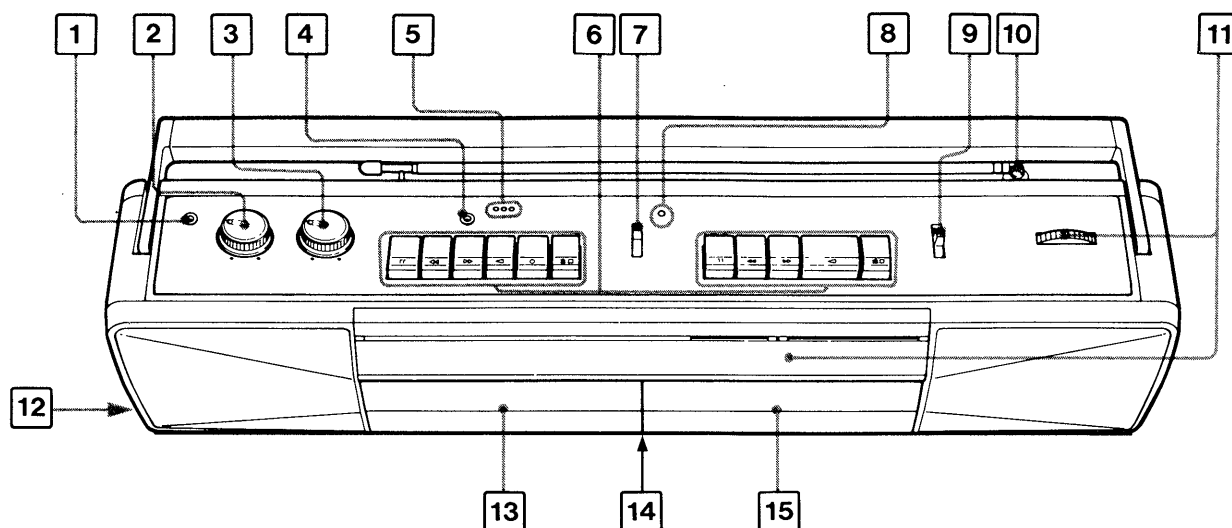


Fig. A. Using an AC voltmeter to check AC leakage.

PARTS IDENTIFICATION



- | | |
|--|---|
| <p>1 PHONES (headphones) jack</p> <p>2 VOLUME control</p> <p>3 TONE control</p> <p>4 MIX MIC (external microphone) jack
Minijack to record or mix sound from an external microphone.</p> <p>5 MIC (built-in microphone)</p> <p>6 Tape operation buttons (deck A and B)
 PAUSE
 ⏮ FF/CUE (fast-forward/cue) button
 ⏮ REW/REVIEW (rewind/review) button
 (Note: ⏮ and ⏮ do NOT release automatically at tape end. Press ▲■ STOP/EJECT.)
 ▶ PLAY button
 ● REC (record) button (deck B only)—Pressing this will automatically depress ▶ PLAY.
 ▲■ STOP/EJECT button</p> | <p>7 FUNCTION selector
Selects RADIO, TAPE or DUBBING. You can choose NORMAL or HIGH-SPEED dubbing.</p> <p>8 OPR/BATT (operation/battery) indicator
Lights when unit is in use. Glows faintly to show low battery voltage (necessary to replace all batteries).</p> <p>9 BAND selector</p> <p>10 Telescopic antenna</p> <p>11 TUNING knob and dial scale
Turn to select the frequency of the desired station.</p> <p>12 AC IN (power input) socket (side panel)</p> <p>13 Cassette deck holder B</p> <p>14 Battery compartment (rear panel)</p> <p>15 Cassette deck holder A</p> |
|--|---|

SECTION 1 ADJUSTMENTS

1-1. MECHANICAL ADJUSTMENTS PRECAUTION

1. Clean the following parts with a denatured-alcohol-moistened swab:

record/playback head	pinch roller
erase head	rubber belts
capstan	
2. Demagnetize the record/playback head with a head demagnetizer. (Do not bring the head demagnetizer close to the erase head.)
3. Do not use a magnetized screwdriver for the adjustments.
4. After the adjustments, apply suitable locking compound to the parts adjusted.
5. The adjustments should be performed with the rated power supply voltage unless otherwise noted.

Deck A, B

Torque Measurement

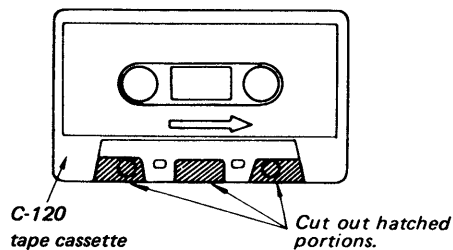
Mode	Torque meter	Meter reading
FWD	CQ-102C	25 to 50 g·cm (0.35 to 0.69 oz·inch)
FWD Back Tension		2 to 5 g·cm (0.028 to 0.069 oz·inch)
FF	CQ-201B	65 to 110 g·cm (0.9 to 1.53 oz·inch)
REW		65 to 110 g·cm (0.9 to 1.53 oz·inch)

Tape Tension Measurement

Mode	Tension meter	Meter reading
FWD	CQ-403A	more than 170 g (more than 6.09 oz)

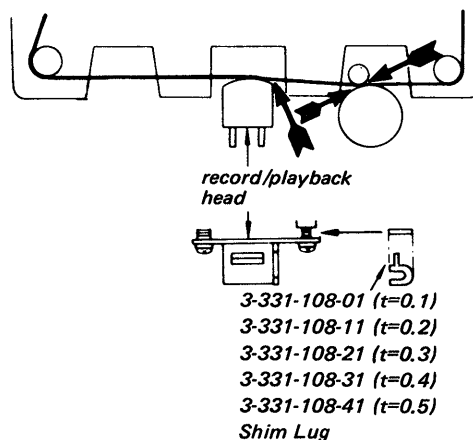
Head Height Adjustment

1. Prepare an adjustment cassette as shown below.



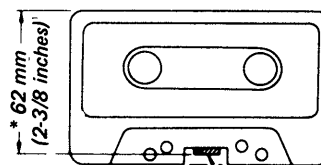
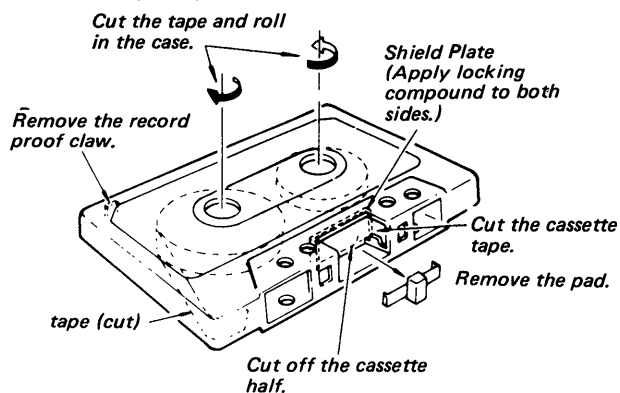
2. In record mode and viewing from the front, adjust the head heights to eliminate tape curl and tape twist at portions of arrow.

Deck A, B

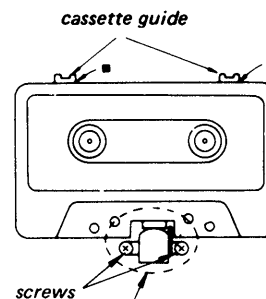


REC/PB Head Installation and Position Adjustment

1. Cassette Tape Preparation



Spacer (Prepare a suitable material
and install it so that the distance
marked by * is 62 mm (2-3/8) inches
and apply locking compound.)



2. Set the cassette tape into the set and install the head with the screws so that the edge of the head is in contact with the spacer when pressing the FWD button and FF button or the FWD button and REW button at the same time. (At this time, the portion marked by ■ is in contact with the cassette). Then, adjust the REC/PB head Azimuth Adjustment and apply locking compound to an installation screw.

1-2. TAPE RECORDER SECTION ELECTRICAL ADJUSTMENTS

Note: The adjustment should be performed in the order given in this service manual. The adjustments should be performed for both L-CH and R-CH.

- Switches and controls should be set as follows unless otherwise specified.

FUNCTION: TAPE (RADIO OFF)

VOLUME: mechanical mid

TONE: mechanical mid

- Standard Input Level

Input terminal	MIC
source impedance	300 Ω
input level	0.77 mV (-60 dB)

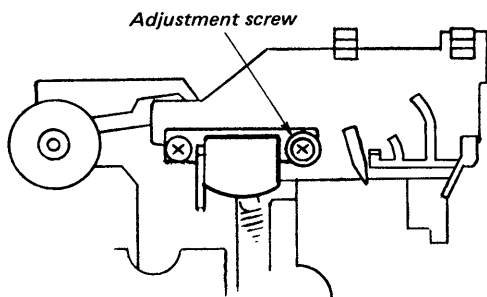
- Standard Output Level

Output terminal	PHONES	Speaker
load impedance	32 Ω	3.2 Ω
output level	0.25 V (-10 dB)	0.775 V (0 dB)

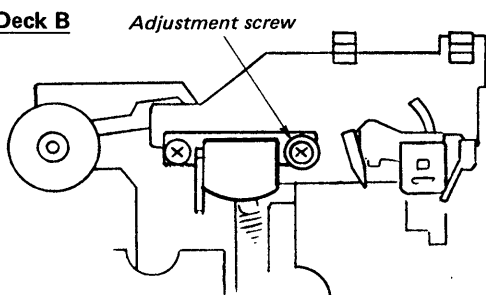
Test tape:

Type	Signal	Used for
P-4-A063	6.3 kHz, -10 dB	Azimuth Adjustment
WS-48A	3 kHz, 0 dB	Tape Speed Adjustment

Deck A



Deck B

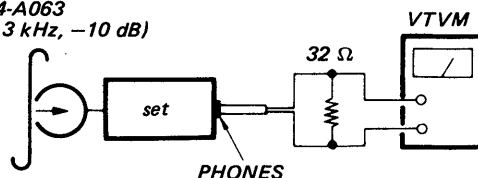


Record/playback Head Azimuth Adjustment

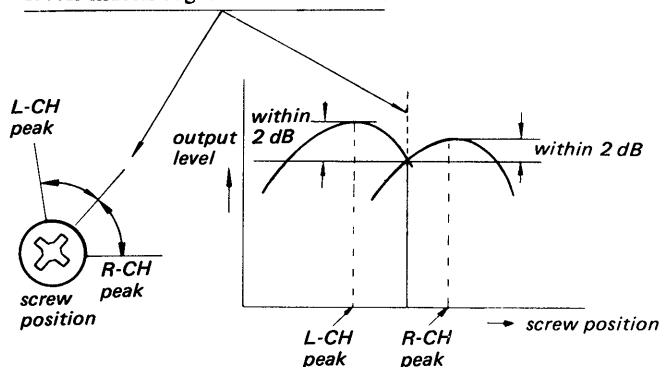
Procedure:

- Mode: FWD playback

test tape
P-4-A063
(6.3 kHz, -10 dB)



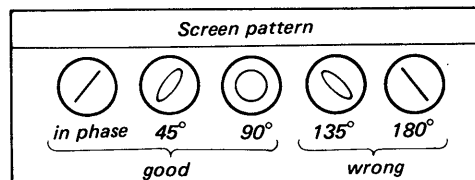
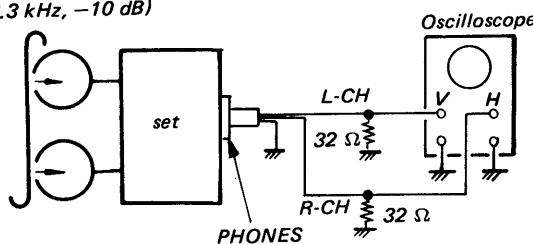
- Turn the adjustment screw for the maximum output levels. If these levels do not match, turn the adjustment screw until both of output levels match together within 2 dB.



- Phase Check

Mode: playback

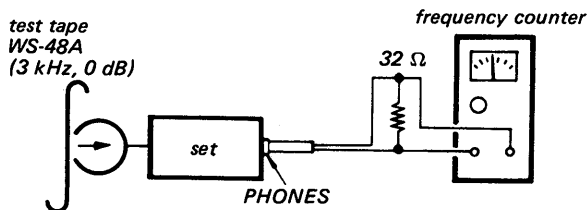
test tape
P-4-A063
(6.3 kHz, -10 dB)



Tape Speed Adjustment (for both decks A and B)

Procedure

Mode: Playback



Specification (in the middle of the tape):

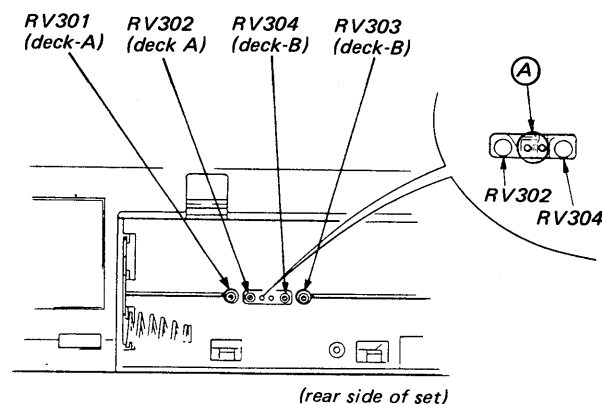
	Frequency counter
High speed	5970 $\pm$ 30 Hz
Normal speed	2985 $\pm$ 15 Hz

Frequency difference between the beginning and the end of the tape should be within $\pm 1.5\%$ (45 Hz).

1. Short (A) point (TP301 and TP302)
(It results in high speed mode.)
2. Insert WS-48A in deck-A (deck-B) and put into playback mode.
3. Adjust RV301 (RV304) for the specified reading on the frequency counter or the speed checker.
4. Open (A) point (TP301 and TP302)
(It results in normal speed mode.)
5. Insert WS-48A in deck-A (deck-B) and put into playback mode.
6. Adjust RV302 (RV303) for the specified reading on the frequency counter or the speed checker.

Note: Be sure to perform the high speed adjustment at first.

Adjustment Location: MAIN board



Record Bias Adjustment

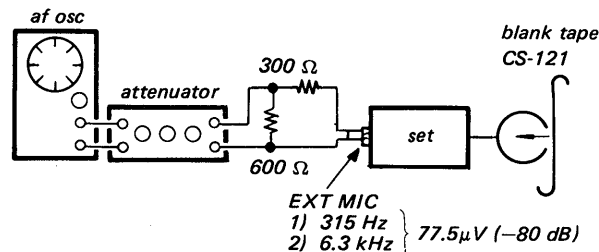
Setting:

TONE: mechanical mid

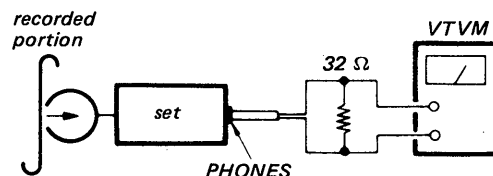
FUNCTION: TAPE (RADIO OFF)

Procedure:

1. Mode: record

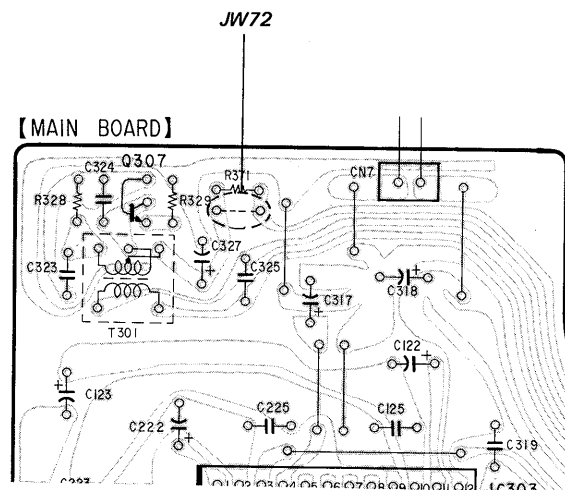


2. Mode: playback



3. Confirm that the 6.3 kHz playback signal level is 0 ± 3 dB relative to the 315 Hz signal.
If necessary, adjust by connecting or disconnecting JW72.

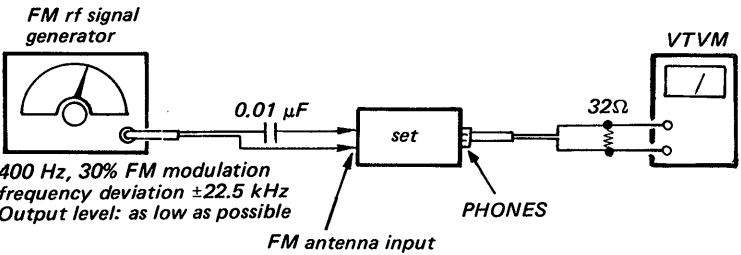
Adjustment Location: MAIN board



1-3. RADIO SECTION
ELECTRICAL ADJUSTMENTS

FM SECTION

FUNCTION: RADIO
BAND: FM



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

FM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
86.5 MHz	L1
109.5 MHz	CT1

FM FREQUENCY COVERAGE ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
86.5 MHz	L2
109.5 MHz	CT2

FM IF Alignment 2

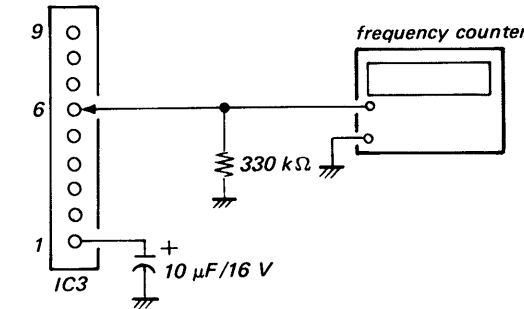
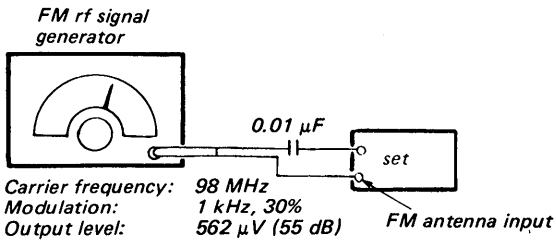
Procedure:

- Turn T2 fully clockwise.
- Make sure that sinewave appears three times when changing rf signal-generator frequency gradually.
- Set rf signal-generator frequency for second sinewave, and precisely adjust rf signal-generator frequency for maximum reading on oscilloscope.
- Adjust T2 for maximum reading and minimum noise on oscilloscope.

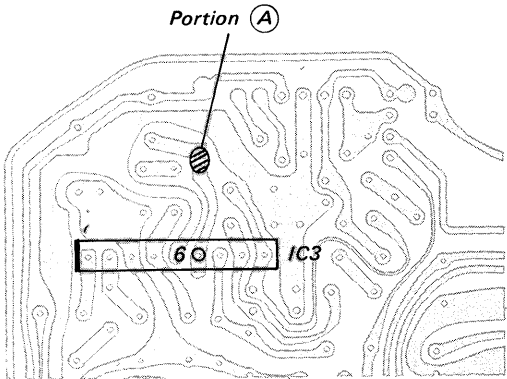
VCO Adjustment

A) Regular Method

Procedure:

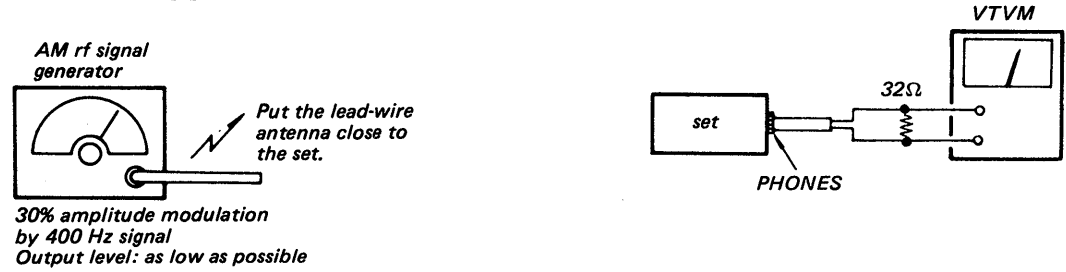


- Connect an electrolytic capacitor (10 μ F/16 V) between pin ① of IC3 and ground.
- Unsolder the portion (A).
- Tune the set to 98 MHz.
- Adjust RV1 for 38 kHz $\pm$ 0.1 kHz on the counter.
- Remove electrolytic capacitor mounted in step 1.
- Solder the portion (A).



AM SECTION

FUNCTION : RADIO
BAND : AM



- Repeat the procedures in each adjustment several times, and the frequency coverage and tracking adjustments should be finally done by the trimmer capacitors.

AM TRACKING ADJUSTMENT	
Adjust for a maximum reading on VTVM.	
600 kHz	L3
1,400 kHz	CT3

AM IF ALIGNMENT	
Adjust for a maximum reading on VTVM.	
455 kHz	T3

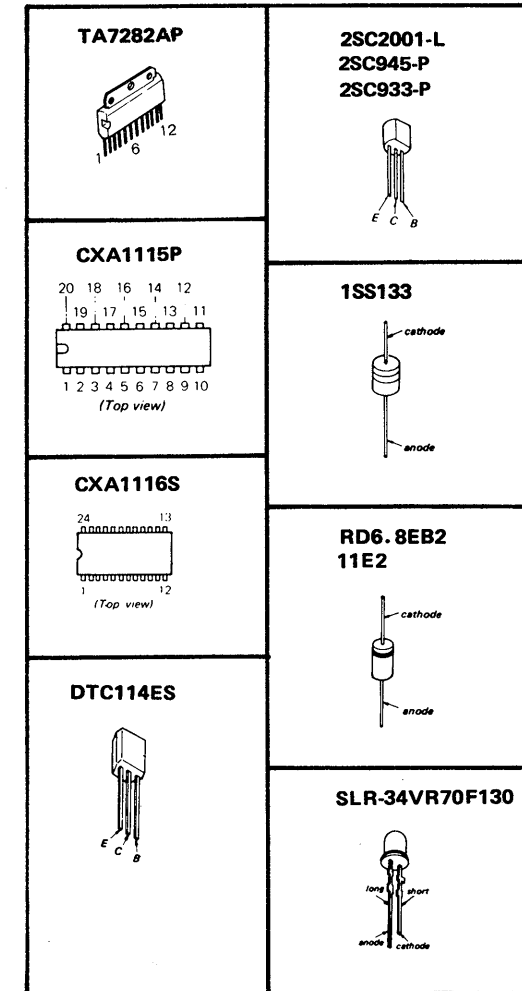
[TUNER BOARD]

CT4	L4
1,680 kHz	520 kHz
Adjust for a maximum reading on VTVM.	
AM FREQUENCY COVERAGE ADJUSTMENT	

SECTION 3
DIAGRAMS

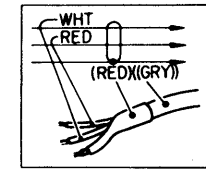
CFS-W301 CFS-W301

Semiconductors Lead Layout
— MAIN SECTION —



Note:

- Color code of sleeving over the end of the jacket.

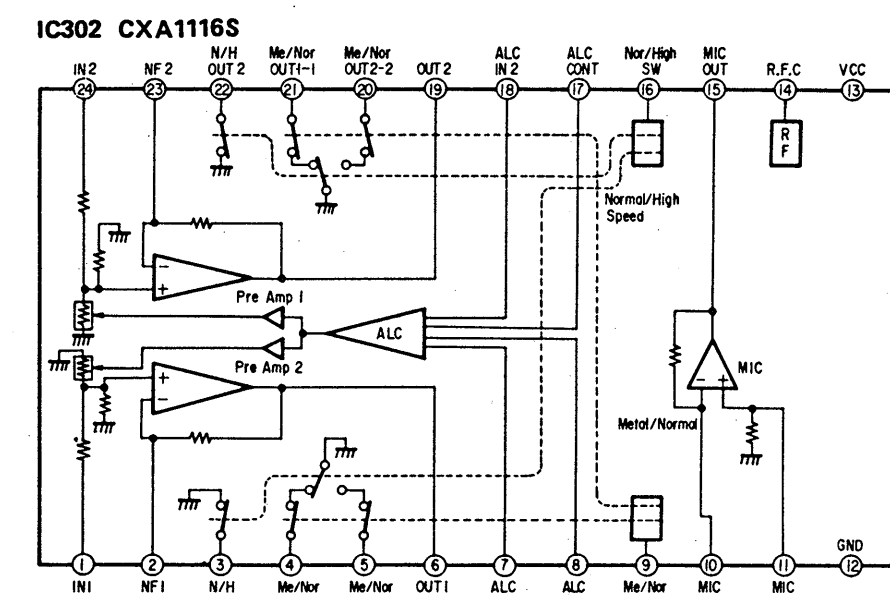


- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : fusible resistor.

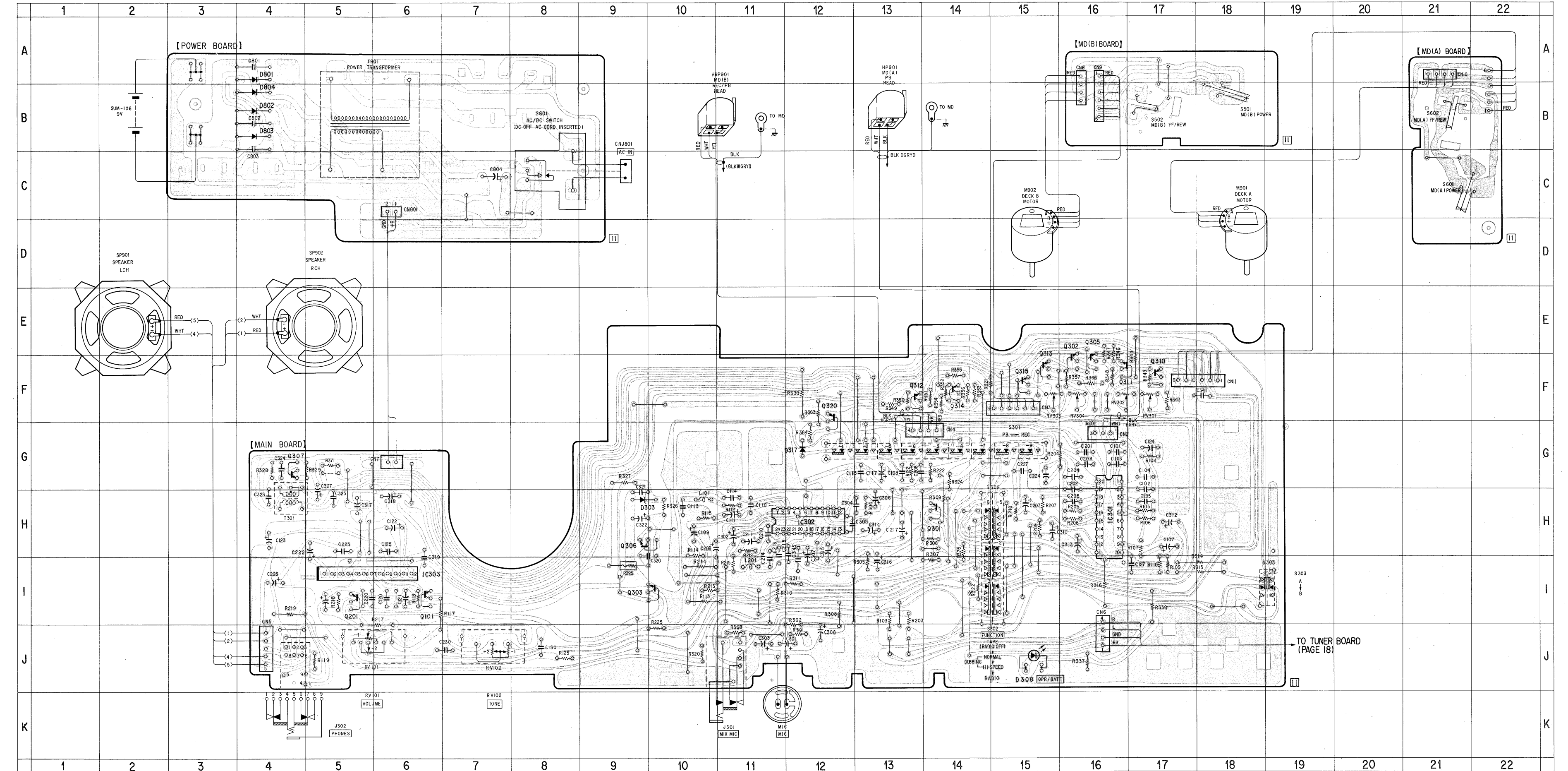
● SEMICONDUCTOR LOCATION

Ref. No.	Location	Ref. No.	Location
IC301	H-16	D303	H-9
IC302	H-12	D308	J-15
IC303	I-6	D317	G-12
Q101	I-6	D801	A-4
Q201	I-5	D802	B-4
Q301	H-14	D803	B-4
Q302	F-16	D804	B-4
Q303	I-9		
Q305	F-16		
Q306	H-9		
Q307	G-4		
Q310	F-17		
Q311	F-16		
Q312	F-13		
Q313	F-15		
Q314	F-14		
Q315	F-15		
Q320	F-12		

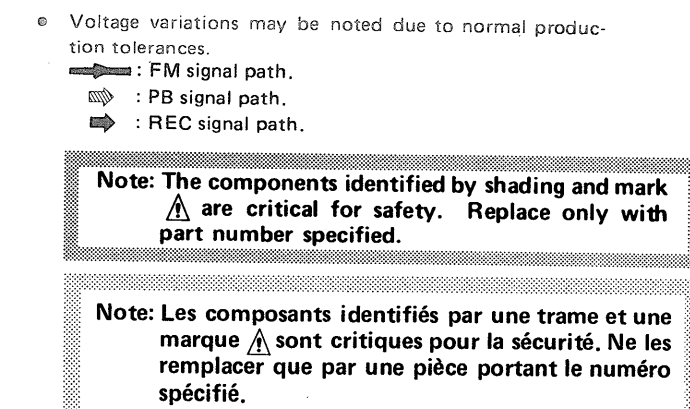
IC BLOCK DIAGRAM — MAIN SECTION —



3-1. MOUNTING DIAGRAM — MAIN SECTION —



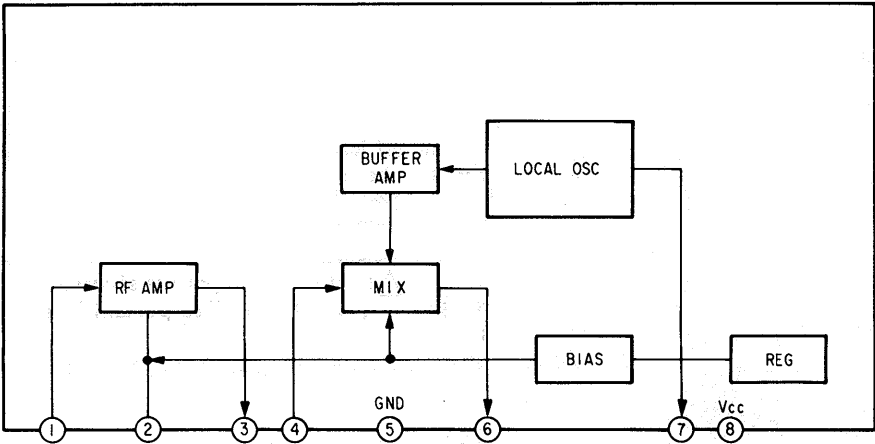
CFS-W301 CFS-W301



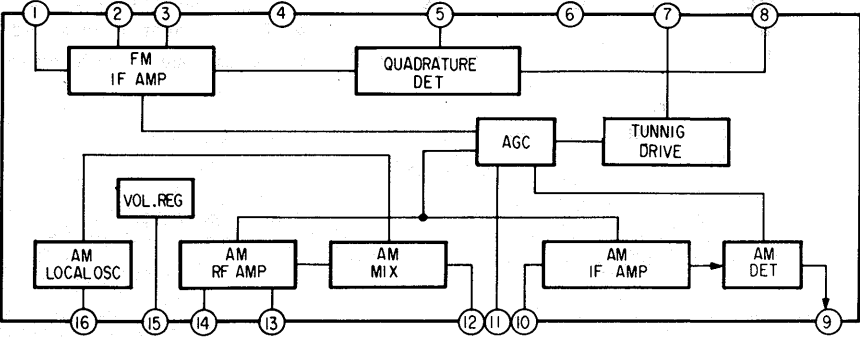
TOTAL	CURRENT
FM	: 88 mA
AM	: 83 mA
Deck A	
PB	: 120 mA
FF	: 165 mA
REW	: 140 mA
Deck B	
PB	: 120 mA
FF	: 165 mA
REW	: 140 mA
REC	: 126 mA
DUBBING	
Normal	Speed: 177 mA
Hi	Speed: 195 mA

IC BLOCK DIAGRAM – TUNER SECTION –

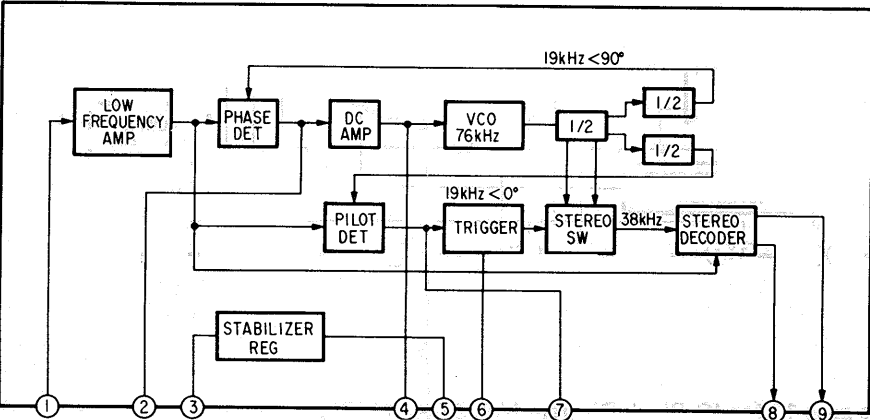
IC1 TA7358AP



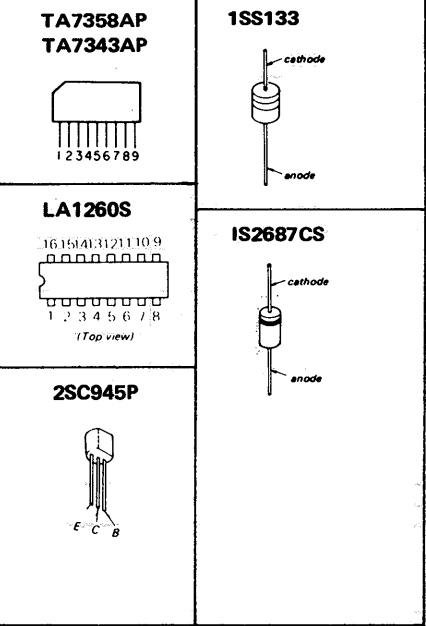
IC2 LA1260S



IC3 TA7343AP



● Semiconductor Lead Layouts – TUNER SECTION –



- : parts extracted from the component side.
- : parts extracted from the conductor side.
- : part mounted on the conductor side.
- : indicates side identified with part number.

● SEMICONDUCTOR LOCATION – TUNER SECTION –

Ref. No.	Location
IC1	F-9
IC2	G-4
IC3	D-3
Q1	G-2
D1	E-5
D3	I-10
D4	G-8

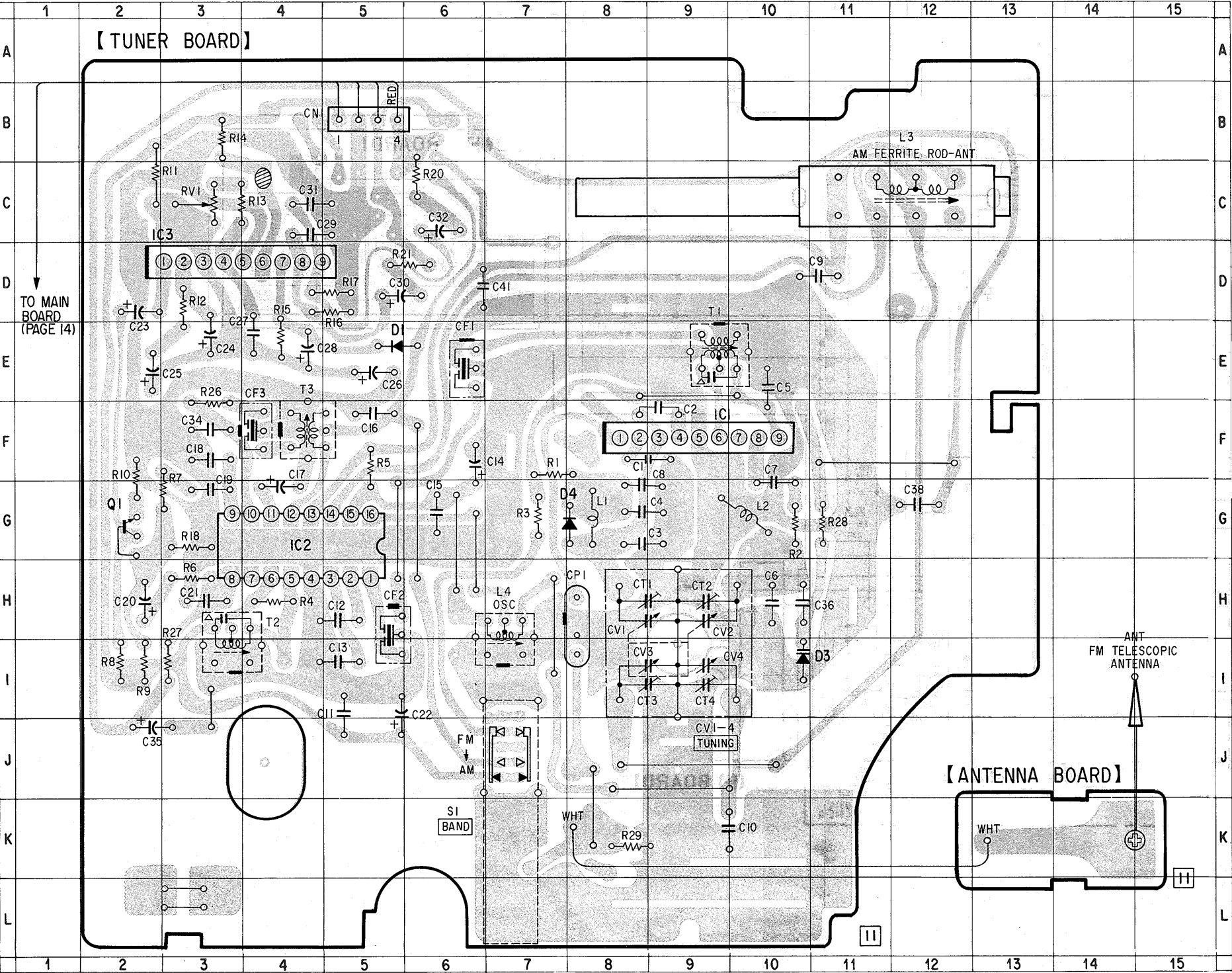
SEE ADDITIONAL INFORMATION

Note:

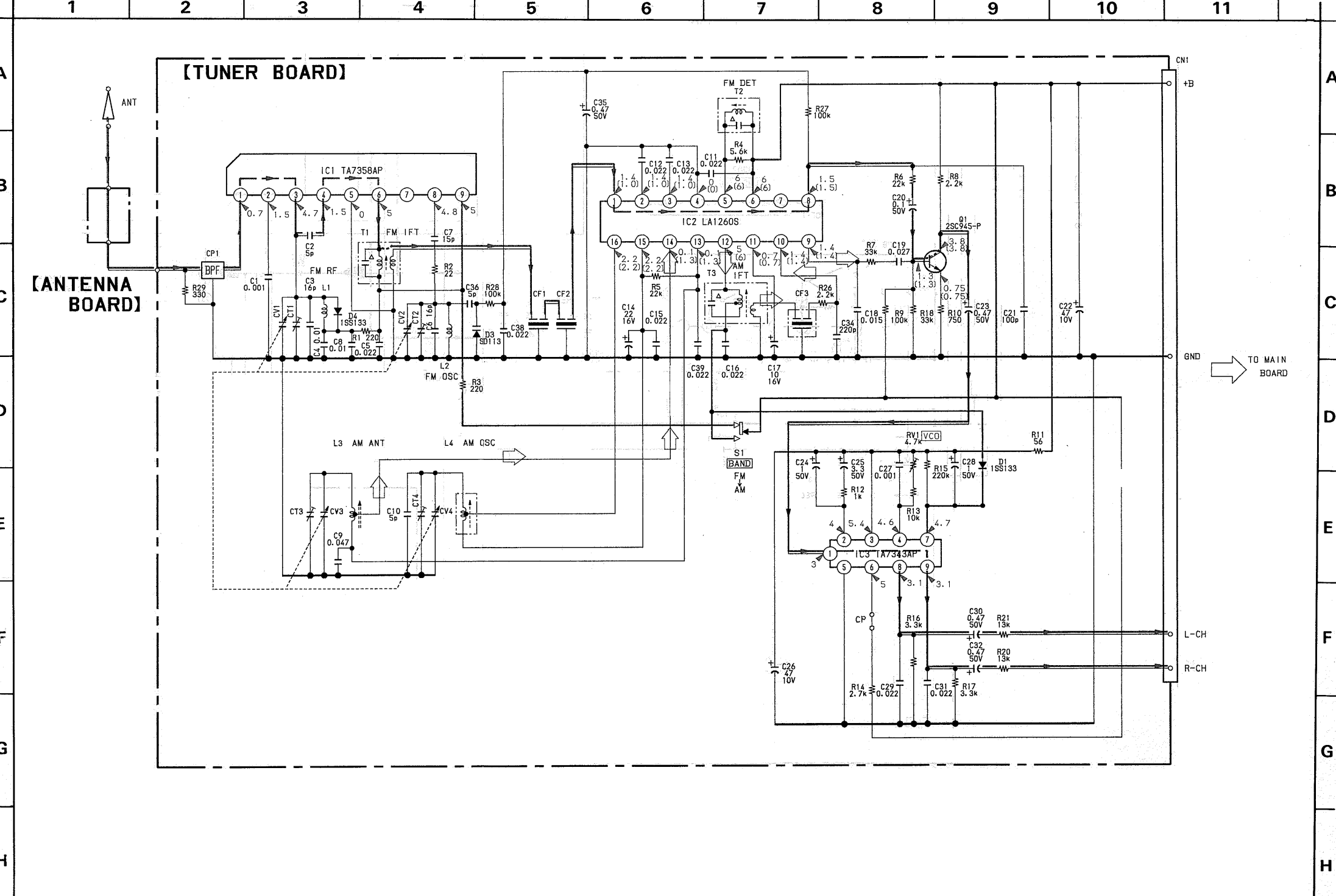
- All capacitors are in μF unless otherwise noted; pF: μF 50 WV or less are not indicated except for electrolytics and tantalums.
- All resistors are in Ω and $\frac{1}{4}\text{W}$ or less unless otherwise specified.
- Δ : internal component.
- $\equiv$: B+ bus.
- $\square$: adjustment for repair.
- Voltages are dc with respect to ground unless otherwise noted.
- Readings are taken under no-signal (detuned) conditions with a VOM (50 k Ω /V).
- No mark : FM
- Voltage variations may be noted due to normal production tolerances.
- $\rightarrow$: FM signal path.
- $\Rightarrow$: AM signal path.

SEE ADDITIONAL INFORMATION

3-3. MOUNTING DIAGRAM – TUNER SECTION –



3-4. SCHEMATIC DIAGRAM – TUNER SECTION –



SECTION 3 EXPLODED VIEWS

SEE ADDITIONAL INFORMATION

NOTE:

• The mechanical parts with no reference number in the exploded views are not supplied.

• Items marked "★" are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

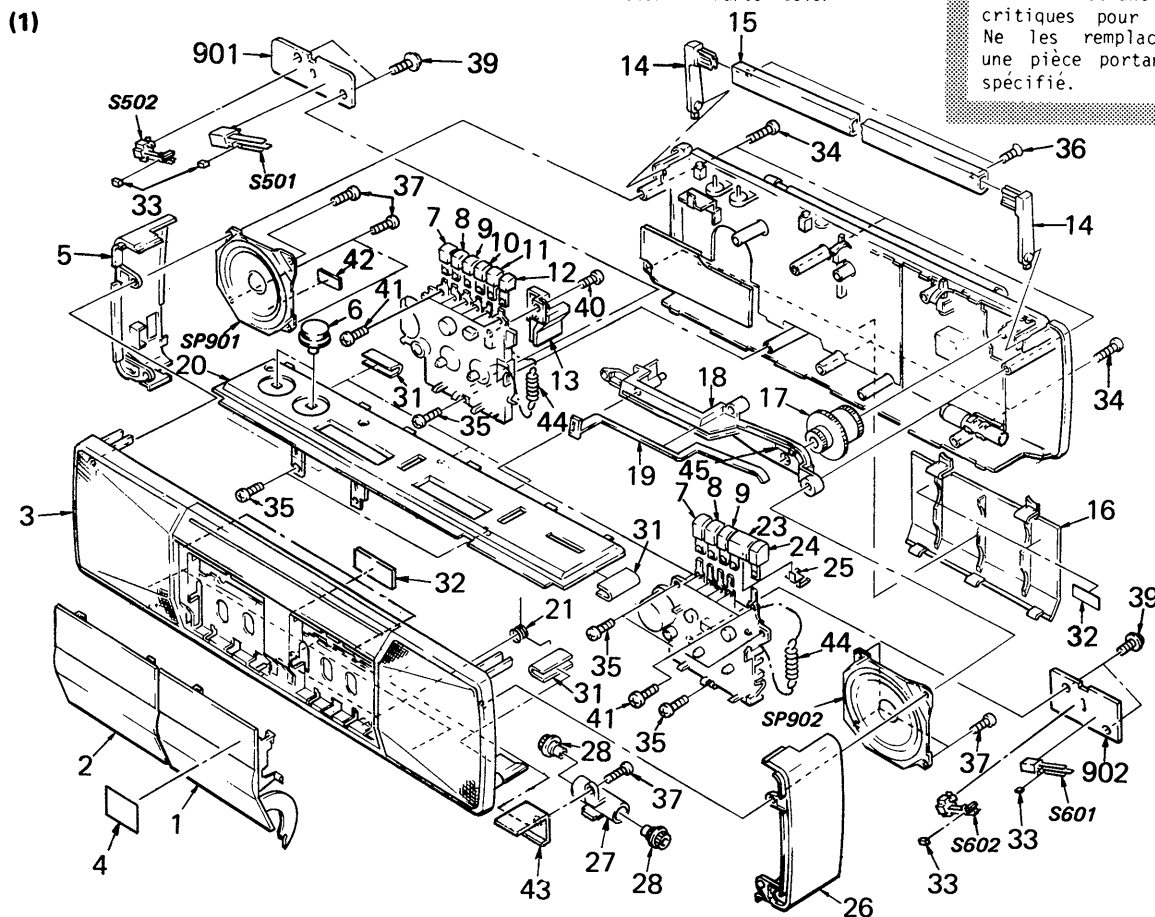
• The construction parts of an assembled part are indicated with a collation number in the remark column.

• Color Indication of Appearance Parts
Example: (RED) KNOB, BALANCE (WHITE)

Cabinet's Color Parts' Color

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

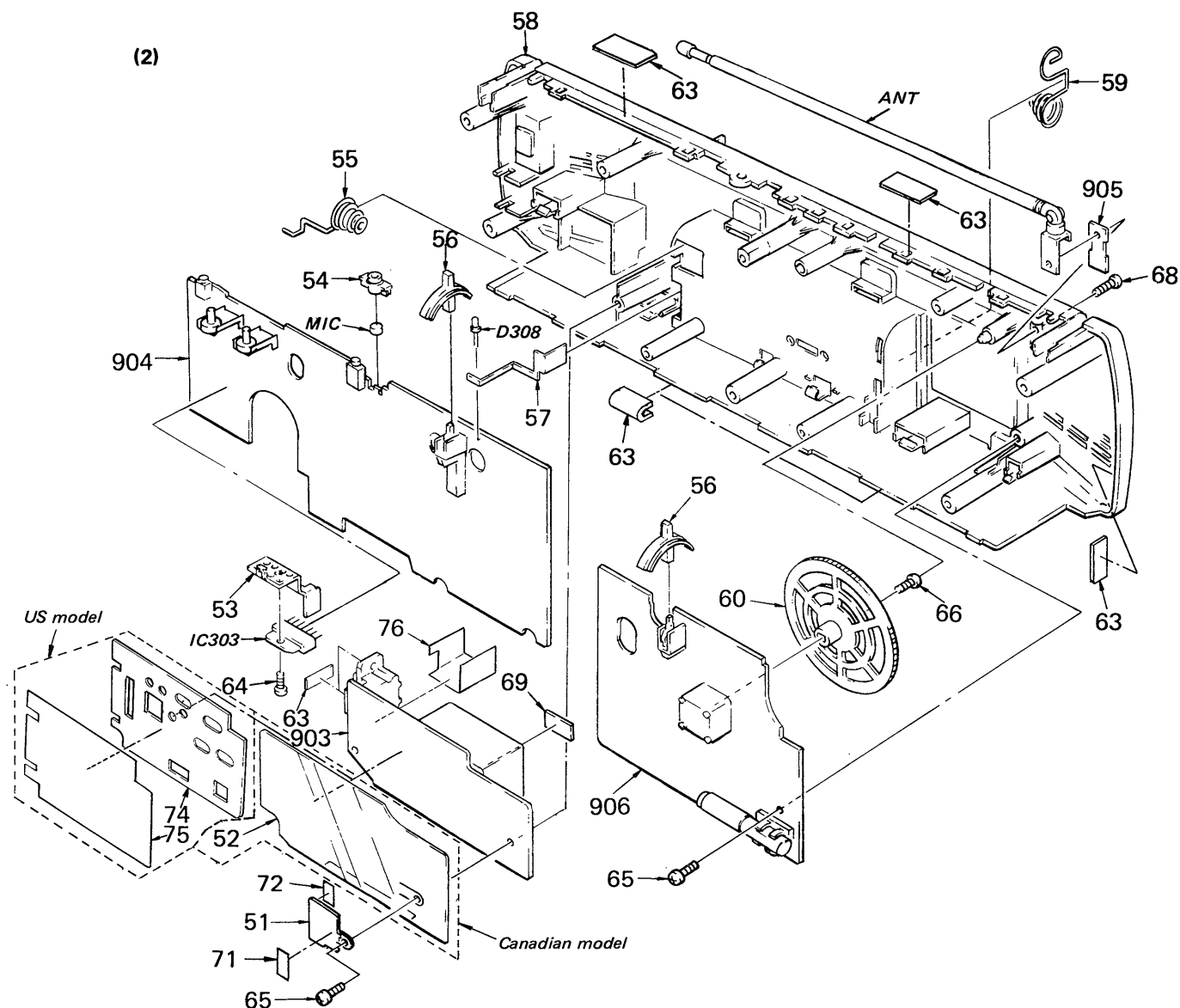
Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
1	A-3247-276-A	HOLDER (RIGHT) ASSY, CASSETTE		21	3-340-353-01	SPRING	
2	A-3247-275-A	HOLDER (LEFT) ASSY, CASSETTE		23	3-340-364-01	BUTTON (B), PLAY	
3	A-3241-622-A	CABINET (FRONT) SUB ASSY		24	3-340-363-01	BUTTON (B), STOP	
4	3-703-710-01	STICKER, SONY SYMBOL (12)		25	3-340-357-01	SPRING	
5	3-340-372-01	(BLACK)...PLATE (LEFT), SIDE (BLACK)		26	3-340-371-01	(BLACK)...PLATE (RIGHT), SIDE (BLACK)	
	3-340-372-11	(BLUE)...PLATE (LEFT), SIDE (BLUE)			3-340-371-11	(BLUE)...PLATE (RIGHT), SIDE (BLUE)	
6	3-340-362-01	KNOB, VOL		27	3-339-314-01	BRACKET, EJECT	
7	3-340-370-01	BUTTON (A), PAUSE		28	3-326-411-01	GEAR, EJECT	
8	3-340-369-01	BUTTON (A), FF		32	3-831-441-11	CUSHION	
9	3-340-367-01	BUTTON (A), REW		33	9-911-844-XX	SPACER, LEAF	
10	3-340-365-01	BUTTON (A), PLAY		34	7-685-651-79	SCREW +BVTP 3X20 TYPE2	
11	3-340-368-01	BUTTON (A), REC		35	7-685-648-79	SCREW +BVTP 3X12 TYPE2 N-S	
12	3-340-366-01	BUTTON (A), STOP		36	7-685-246-19	SCREW +KTP 3X8 TYPE2 NON-SLIT	
13	3-339-308-01	LEVER, REC		37	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S	
14	3-341-115-21	PLATE, SIDE, HANDLE		39	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
15	3-326-454-81	(BLACK)...HANDLE (BLACK)		40	7-621-259-55	SCREW +BVTT 2.6X8 (S)	
	3-326-454-91	(BLUE)...HANDLE (BLUE)		41	7-621-259-35	SCREW +PTT 2.6X5 (S)	
16	3-340-376-01	LID, BATTERY CASE		42	9-911-845-XX	(Canadian)...CUSHION	
17	3-339-329-01	KNOB, TUNING		43	*3-341-136-01	SUPPORT, EJECT BRACKET	
18	3-340-375-01	CHASSIS, DIAL		44	3-341-114-01	SPRING, TENSION	
19	3-339-324-01	RACK, POINTER		901	*1-622-094-11	PC BOARD, SW (A)	
20	3-340-379-01	(US:BLACK)...PANEL, CONTROL (BLACK)		902	*1-622-095-11	PC BOARD, SW (B)	
	3-340-379-11	(US:BLUE)...PANEL, CONTROL (BLUE)		S501	1-554-495-00	SWITCH, LEAF	
	3-340-379-21	(Canadian:BLACK)...PANEL, CONTROL (BLACK)		S502	1-570-012-11	SWITCH, LEAF	
	3-340-379-31	(Canadian:BLUE)...PANEL, CONTROL (BLUE)		S601	1-554-495-00	SWITCH, LEAF	
				S602	1-570-012-11	SWITCH, LEAF	
				SP901	1-503-798-11	SPEAKER (LEFT)	
				SP902	1-503-798-11	SPEAKER (RIGHT)	

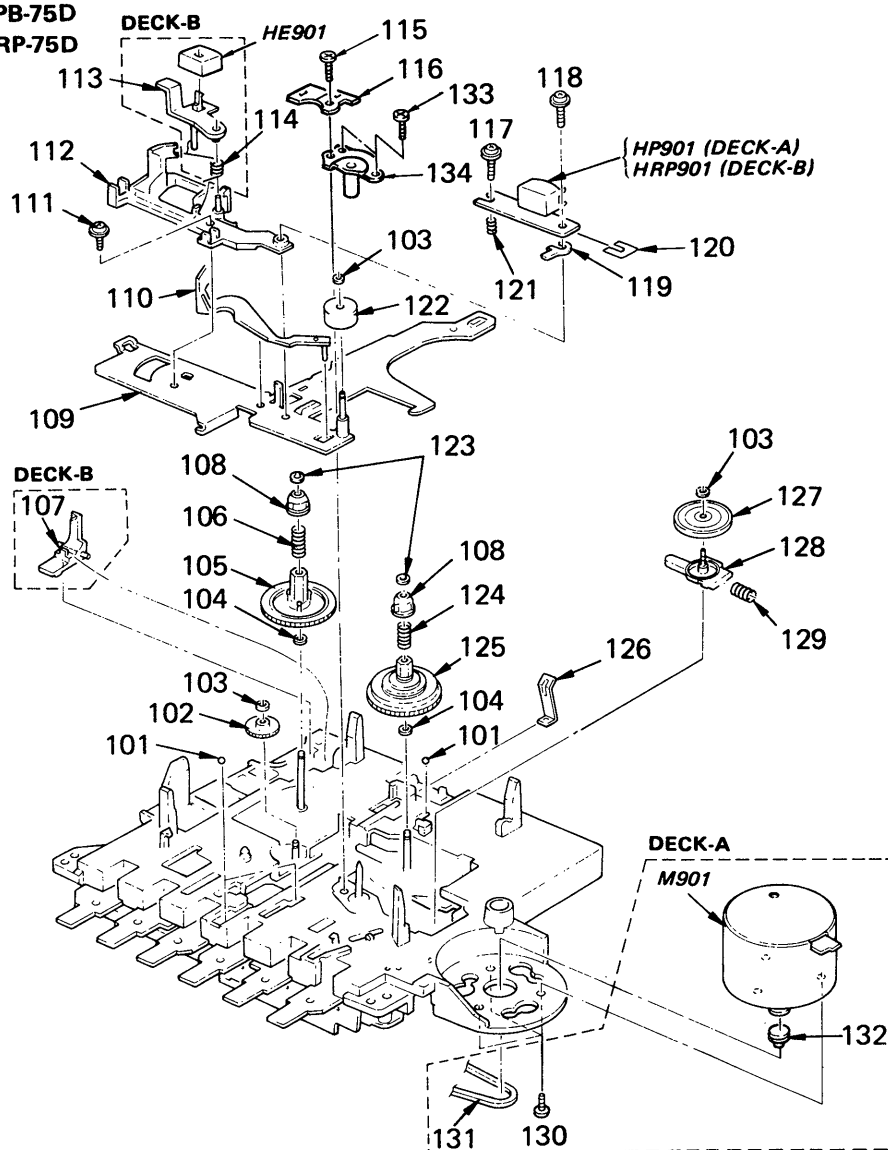
SEE ADDITIONAL
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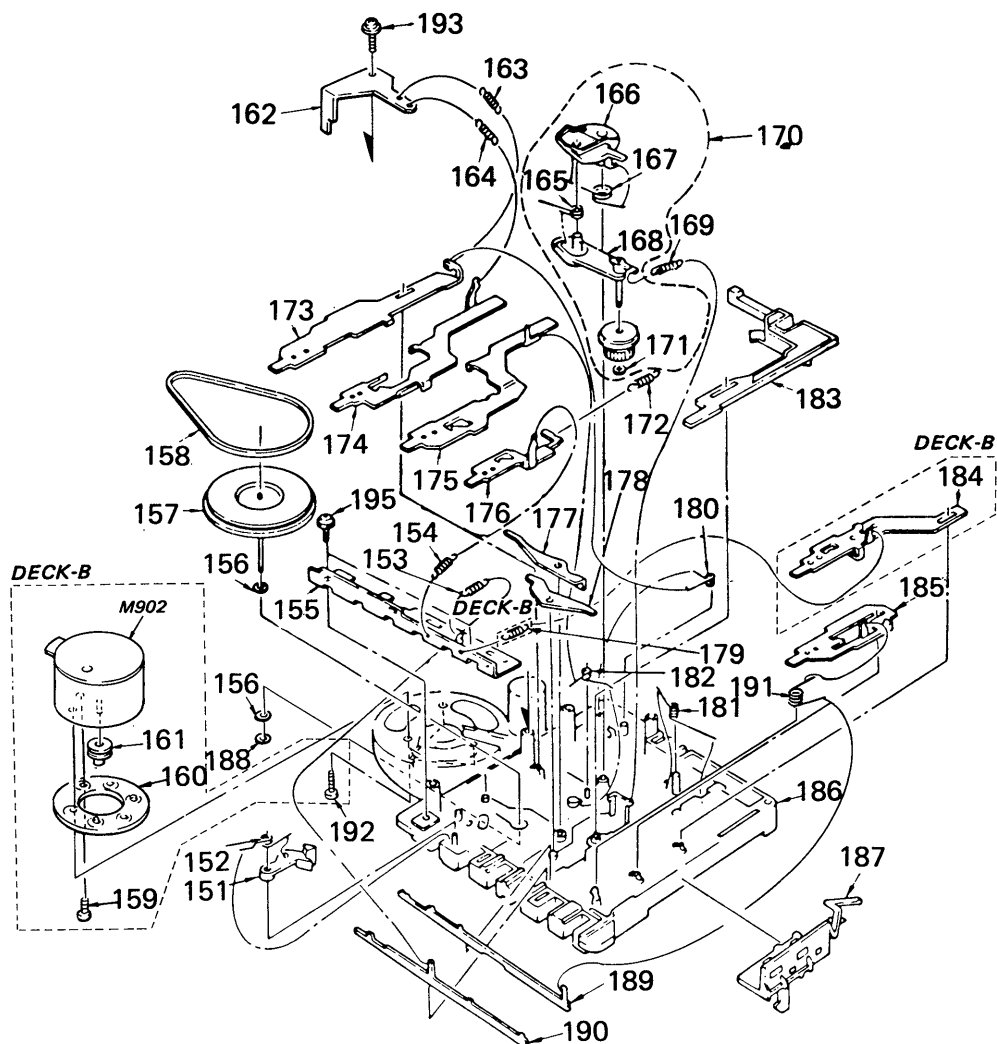
No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
51	*3-340-354-01	CLAMP, POWER PC BOARD		68	7-682-548-09	SCREW +B 3X8	
52	*3-340-351-01	(Canadian)...COVER, POWER		69	4-836-922-01	RETAINER, PHONO CORD	
53	*3-341-113-01	HEAT SINK		71	*4-883-473-00	SPACER, CASSETTE LID	
54	3-340-350-01	CUSHION, MICROPHONE		72	9-911-840-XX	(Canadian)...CUSHION (A)	
55	3-340-352-01	SPRING (-)		73	7-685-648-79	SCREW +BVTP 3X12 TYPE 2 N-S	
56	3-339-328-01	KNOB, FUNCTION		74	3-341-140-01	(US)...INSULATOR, POWER PC BOARD	
57	3-340-358-01	TERMINAL BOARD (+), BATTERY		75	3-341-139-01	(US)...SHEET, PROTECTION, POWER PC BOARD	
58	3-340-378-01	(US).....CABINET (REAR)		76	3-341-138-01	(US)...CLAMP, AC INLET	
	3-340-378-11	(Canadian)...CABINET (REAR)		903	*1-622-096-11	PC BOARD, POWER	
59	3-340-356-01	SPRING (+,-)		904	*A-3270-425-A	PC BOARD ASSY, MAIN	
60	3-339-304-01	DRUM, TUNING CAPACITOR		905	*1-622-092-11	PC BOARD, ANTENNA	
63	3-831-441-11	CUSHION		906	*A-3266-396-A	PC BOARD ASSY, TUNER	
64	7-682-546-04	SCREW +BVTT 3X5 (S)		ANT	1-501-378-11	ANTENNA, TELESCOPIC	
65	7-685-647-79	SCREW +BVTP 3X10 TYPE2 N-S		D308	1-807-738-11	SLR-34VR70F130 (LED)	
66	7-621-770-87	SCREW +B 2.6X5		IC303	8-759-205-82	IC TA7282AP	
				MIC	8-814-186-00	MICROPHONE UNIT (C-1014)	

(3) Deck A: MF-W301PB-75D
Deck B: MF-W301RP-75D



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
101	7-671-112-11	BALL, STEEL		120	3-578-138-01	SEAM (t=0.1)	
102	3-558-620-11	GEAR, REWIND			3-578-138-11	SEAM (t=0.2)	
103	3-307-948-01	WASHER, NYLON			3-578-138-21	SEAM (t=0.3)	
104	3-701-437-21	WASHER					
105	3-313-305-00	TABLE, REEL, SUPPLY		121	3-313-340-00	SPRING, COMPRESSION	
				122	3-703-597-41	PINCH ROLLER, STANDARD	
106	3-313-344-00	SPRING, COMPRESSION		123	3-558-708-01	WASHER, STOPPER	
107	3-313-357-00	(DECK B)...CLAW, REC PREVENTION		124	3-313-345-00	SPRING, COMPRESSION	
108	3-313-333-00	CLAW, REEL		125	A-3130-031-A	TABLE ASSY, REEL, TAKE-UP	
109	X-3313-311-1	CHASSIS ASSY					
				126	3-313-902-00	SPRING	
110	3-313-316-00	PULLEY		127	X-3313-307-0	PULLEY ASSY, FWD	
111	7-621-255-35	SCREW (2MMX5), + PWH		128	X-3313-301-0	BRACKET ASSY, T PULLEY	
112	3-334-717-01	BRACKET (M), HEAD		129	3-573-464-00	SPRING, COMPRESSION	
113	3-313-361-00	(DECK B)...ARM, ERASE HEAD		130	7-621-259-35	(DECK A)...SCREW +P 2.6X5	
114	3-313-339-00	(DECK B)...SPRING					
				131	3-313-389-01	BELT	
115	3-324-220-01	SCREW (B2.6), TAPPING		132	X-3330-617-1	PULLEY (S), MOTOR ASSY	
116	*3-332-309-01	SPRING (B)		133	3-318-203-71	SCREW (B1.7X5), TAPPING	
117	3-701-465-00	SCREW, LOCK		134	X-3319-945-1	BEARING ASSY, CAPSTAN	
118	7-621-255-50	SCREW +B 2X8					
				HE901	8-658-096-02	(DECK B)...HEAD, ERASE EBF5-36	
119	3-331-108-01	LUG (T), SEAM (t=0.1)		HP901	1-543-283-11	(DECK A)...HEAD, MAGNETIC (REC/PB)	
	3-331-108-11	LUG (T), SEAM (t=0.2)		HRP901	1-543-283-11	(DECK B)...HEAD, MAGNETIC (REC/PB)	
	3-331-108-21	LUG (T), SEAM (t=0.3)		IM901	1-541-330-11	(DECK A)...MOTOR (CW)	
	3-331-108-31	LUG (T), SEAM (t=0.4)					
	3-331-108-41	LUG (T), SEAM (t=0.5)					

(4)



No.	Part No.	Description	Remarks	No.	Part No.	Description	Remarks
151	3-313-322-02	LEVER (A), S.OFF		173	*3-313-381-01	LEVER (B), PAUSE BUTTON	
152	3-313-323-00	SPRING		174	*3-313-353-00	LEVER, FF BUTTON	
153	3-313-343-00	SPRING, TENSION		175	*3-313-354-00	LEVER, REW BUTTON	
154	3-313-369-00	SPRING, TENSION		176	*3-313-326-00	LEVER, FWD BUTTON	
155	*3-313-359-00	RETAINER, LEVER		177	*3-313-320-11	LEVER, RCP	
156	3-701-438-11	WASHER, 2.5		178	*3-313-321-00	LEVER, PREVENTION, RFR	
157	X-3592-309-1	FLYWHEEL (E) ASSY		179	3-322-529-01	(DECK B)...SPRING, TENSION	
158	3-313-389-01	BELT		180	3-313-378-01	SPRING (A)	
159	7-621-259-25	(DECK B)...SCREW +P 2.6X4		181	3-313-327-00	SPRING	
160	3-330-679-01	(DECK B)...BRACKET (M), MOTOR		182	3-313-338-00	SPRING	
161	X-3330-617-1	PULLEY (S), MOTOR ASSY		183	3-313-356-00	BRAKE	
162	*3-332-310-01	HOOK, SPRING		184	*3-313-350-00	(DECK B)...LEVER, REC BUTTON	
163	3-313-349-00	SPRING, TENSION		185	*3-313-325-00	LEVER, STOP BUTTON	
164	3-313-348-00	SPRING, TENSION		186	A-3102-092-A	CHASSIS ASSY, MECHANICAL	
165	3-313-313-00	SPRING		187	3-313-380-01	CLAW (A), EJECT	
166	3-313-314-00	LEVER (SI), FR		188	3-307-948-41	WASHER, NYLON	
167	3-313-315-00	SPRING		189	*3-313-352-11	PLATE (B), LOCK	
168	X-3313-304-0	ARM ASSY, REW		190	*3-313-351-11	PLATE (A), LOCK	
169	3-313-365-00	SPRING, TENSION		191	3-313-331-00	SPRING	
170	A-3136-041-B	IDLER COMPLETE ASSY, FR	165-168, 171	192	3-324-219-01	SCREW, PAN	
171	3-558-708-01	WASHER, STOPPER		193	7-687-233-11	SCREW (+ PTPWH) (2.6X6)	
172	3-313-342-00	SPRING, TENSION		M902	1-541-317-11	(DECK B)...MOTOR	

SECTION 4

ELECTRICAL PARTS LIST

NOTE:

- The mechanical parts with no reference number in the exploded views are not supplied.
- The construction parts of an assembled part are indicated with a collation number in the remark column.

Items marked " * " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
901	*1-622-094-11	PC BOARD, SW (A)			
902	*1-622-095-11	PC BOARD, SW (B)			
903	*1-622-096-11	PC BOARD, POWER			
904	*A-3270-425-A	PC BOARD ASSY, MAIN			
905	*1-622-092-11	PC BOARD, ANTENNA			
906	*A-3266-396-A	PC BOARD ASSY, TUNER			
ANT	1-501-378-11	ANTENNA, TELESCOPIC			
C1	1-102-074-00	CERAMIC	0.001MF	10%	50V
C2	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C3	1-102-952-00	CERAMIC	16PF	5%	50V
C4	1-101-004-00	CERAMIC	0.01MF		50V
C5	1-161-055-00	CERAMIC	0.022MF	10%	25V
C6	1-102-952-00	CERAMIC	16PF	5%	50V
C7	1-102-951-00	CERAMIC	15PF	5%	50V
C8	1-101-004-00	CERAMIC	0.01MF		50V
C9	1-101-006-00	CERAMIC	0.047MF		50V
C10	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C11	1-101-005-00	CERAMIC	0.022MF		50V
C12	1-101-005-00	CERAMIC	0.022MF		50V
C13	1-101-005-00	CERAMIC	0.022MF		50V
C14	1-123-330-00	ELECT	22MF	20%	16V
C15	1-101-005-00	CERAMIC	0.022MF		50V
C16	1-101-005-00	CERAMIC	0.022MF		50V
C17	1-123-356-00	ELECT	10MF	20%	16V
C18	1-161-053-00	CERAMIC	0.015MF	10%	25V
C19	1-161-056-00	CERAMIC	0.027MF	10%	25V
C20	1-124-463-00	ELECT	0.1MF	20%	50V
C21	1-102-973-00	CERAMIC	100PF	10%	50V
C22	1-123-306-00	ELECT	47MF	20%	10V
C23	1-123-379-00	ELECT	0.47MF	20%	50V
C24	1-123-380-00	ELECT	1MF	20%	50V
C25	1-123-382-00	ELECT	3.3MF	20%	50V
C26	1-123-306-00	ELECT	47MF	20%	10V
C27	1-130-471-00	FILM	0.001MF	5%	50V
C28	1-123-380-00	ELECT	1MF	20%	50V
C29	1-161-055-00	CERAMIC	0.022MF	10%	25V
C30	1-123-379-00	ELECT	0.47MF	20%	50V
C31	1-161-055-00	CERAMIC	0.022MF	10%	25V
C32	1-123-379-00	ELECT	0.47MF	20%	50V
C34	1-102-110-00	CERAMIC	220PF	10%	50V
C35	1-123-379-00	ELECT	0.47MF	20%	50V
C36	1-102-942-00	CERAMIC	5PF	0.5PF	50V
C38	1-161-055-00	CERAMIC	0.022MF	10%	25V
C41	1-101-005-00	CERAMIC	0.022MF		50V
C101	1-102-115-00	CERAMIC	560PF	10%	50V
C102	1-102-110-00	CERAMIC	220PF	10%	50V

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C103	1-102-115-00	CERAMIC	560PF	10%	50V
C104	1-102-110-00	CERAMIC	220PF	10%	50V
C105	1-161-052-00	CERAMIC	0.012MF	10%	25V
C107	1-123-369-00	ELECT	4.7MF	20%	50V
C108	1-102-074-00	CERAMIC	0.001MF	10%	50V
C109	1-123-369-00	ELECT	4.7MF	20%	50V
C110	1-102-110-00	CERAMIC	220PF	10%	50V
C111	1-123-306-00	ELECT	47MF	20%	10V
C113	1-161-054-00	CERAMIC	0.018MF	10%	25V
C114	1-161-055-00	CERAMIC	0.022MF	10%	25V
C115	1-102-973-00	CERAMIC	100PF	5%	50V
C117	1-123-369-00	ELECT	4.7MF	20%	50V
C120	1-102-074-00	CERAMIC	0.001MF	10%	50V
C121	1-123-306-00	ELECT	47MF	20%	10V
C122	1-123-307-00	ELECT	100MF	20%	10V
C123	1-123-299-00	ELECT	1000MF	20%	6.3V
C124	1-123-306-00	ELECT	47MF	20%	10V
C125	1-130-497-00	MYLAR	0.15MF	5%	50V
C127	1-102-973-00	CERAMIC	100PF	5%	50V
C130	1-161-020-11	CERAMIC	0.039MF	10%	25V
C201	1-102-115-00	CERAMIC	560PF	10%	50V
C202	1-102-110-00	CERAMIC	220PF	10%	50V
C203	1-102-115-00	CERAMIC	560PF	10%	50V
C204	1-102-110-00	CERAMIC	220PF	10%	50V
C205	1-161-052-00	CERAMIC	0.012MF	10%	25V
C207	1-123-369-00	ELECT	4.7MF	20%	50V
C208	1-102-074-00	CERAMIC	0.001MF	10%	50V
C209	1-123-369-00	ELECT	4.7MF	20%	50V
C210	1-102-110-00	CERAMIC	220PF	10%	50V
C211	1-123-306-00	ELECT	47MF	20%	10V
C213	1-161-054-00	CERAMIC	0.018MF	10%	25V
C214	1-161-055-00	CERAMIC	0.022MF	10%	25V
C215	1-102-973-00	CERAMIC	100PF	5%	50V
C217	1-123-369-00	ELECT	4.7MF	20%	50V
C220	1-102-074-00	CERAMIC	0.001MF	10%	50V
C221	1-123-306-00	ELECT	47MF	20%	10V
C222	1-123-307-00	ELECT	100MF	20%	10V
C223	1-123-299-00	ELECT	1000MF	20%	6.3V
C224	1-123-306-00	ELECT	47MF	20%	10V
C225	1-130-497-00	MYLAR	0.15MF	5%	50V
C227	1-102-973-00	CERAMIC	100PF	5%	50V
C230	1-161-020-11	CERAMIC	0.039MF	10%	25V
C301	1-123-379-00	ELECT	0.47MF	20%	50V
C302	1-123-379-00	ELECT	0.47MF	20%	50V
C303	1-124-464-11	ELECT	0.22MF	20%	50V

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ELECTRICAL PARTS

Ref.No.	Part No.	Description			
C304	1-102-074-00	CERAMIC	0.001MF	10%	50V
C305	1-161-053-00	CERAMIC	0.015MF	10%	25V
C306	1-123-330-00	ELECT	22MF	20%	16V
C307	1-123-369-00	ELECT	4.7MF	20%	50V
C308	1-123-307-00	ELECT	100MF	20%	10V
C310	1-123-306-00	ELECT	47MF	20%	10V
C312	1-123-369-00	ELECT	4.7MF	20%	50V
C313	1-124-124-00	ELECT	220MF	20%	10V
C314	1-124-124-00	ELECT	220MF	20%	10V
C315	1-123-307-00	ELECT	100MF	20%	10V
C316	1-123-369-00	ELECT	4.7MF	20%	50V
C317	1-124-124-00	ELECT	220MF	20%	10V
C318	1-123-332-00	ELECT	47MF	20%	16V
C319	1-101-005-00	CERAMIC	0.022MF		50V
C320	1-101-005-00	CERAMIC	0.022MF		50V
C321	1-101-005-00	CERAMIC	0.022MF		50V
C322	1-124-124-00	ELECT	220MF	20%	10V
C323	1-130-479-00	MYLAR	0.0047MF	5%	50V
C324	1-102-074-00	CERAMIC	0.001MF	10%	50V
C325	1-130-467-00	MYLAR	470PF	5%	50V
C327	1-123-306-00	ELECT	47MF	20%	10V
C341	1-102-973-00	CERAMIC	100PF	5%	50V
C345	1-162-294-31	CERAMIC	0.001MF	10%	50V
C801	1-101-005-00	CERAMIC	0.022MF		50V
C802	1-101-005-00	CERAMIC	0.022MF		50V
C803	1-101-005-00	CERAMIC	0.022MF		50V
C804	1-124-887-00	ELECT	3300MF	20%	16V
CF1	1-527-808-00	FILTER, CERAMIC			
CF2	1-527-808-00	FILTER, CERAMIC			
CF3	1-527-954-00	FILTER, CERAMIC			
CNJ6	*1-562-682-11	CONNECTOR, SMALL MICRO 6P			
CNJ11	*1-562-682-11	CONNECTOR, SMALL MICRO 6P			
CNJ801	*1-526-818-11	INLET, AC			
CNP1	*1-560-892-00	PIN, CONNECTOR 4P			
CNP2	*1-560-891-00	PIN, CONNECTOR 3P			
CNP3	*1-560-894-00	PIN, CONNECTOR 6P			
CNP4	*1-560-892-00	PIN, CONNECTOR 4P			
CNP5	*1-560-893-00	PIN, CONNECTOR 5P			
CNP6	*1-562-126-00	SOCKET, CONNECTOR 4P			
CNP7	*1-563-307-11	CONNECTOR (SOCKET) 2P			
CNP11	*1-560-894-00	PIN, CONNECTOR 6P			
CNP801	*1-560-530-00	PIN, CONNECTOR 2P			
CP1	1-235-911-21	FILTER, BAND PASS			
CT1-4	1-151-372-21	CAP, TUNING, POLYETHYLENE			
CV1-4					

ELECTRICAL PARTS

Ref.No.	Part No.	Description
D1	8-719-901-33	DIODE 1SS133
D3	8-719-768-75	DIODE 1S2687CS
D4	8-719-901-33	DIODE 1SS133
D303	8-719-100-41	DIODE RD6.8EB2
D308	1-807-738-11	SLR-34VR70F130 (LED)
D317	8-719-901-33	DIODE 1SS133
D801	8-719-200-23	DIODE 11E2
D802	8-719-200-23	DIODE 11E2
D803	8-719-200-23	DIODE 11E2
D804	8-719-200-23	DIODE 11E2
HE901	8-658-096-02	HEAD, ERASE EBF5-36
HP901	1-543-283-11	(DECK A)...HEAD, MAGNETIC (PB)
HRP901	1-543-283-11	(DECK B)...HEAD, MAGNETIC (REC/PB)
IC1	8-759-204-03	IC TA7358AP
IC2	8-759-801-24	IC LA1260S
IC3	8-759-203-87	IC TA7343AP
IC301	8-759-803-27	IC CXA1115P
IC302	8-759-803-28	IC CXA1116S
IC303	8-759-205-82	IC TA7282AP
J301	1-507-643-00	JACK
J302	1-507-948-11	JACK
L1	1-422-317-00	COIL, VHF
L2	1-422-316-31	COIL, VHF
L3	1-402-158-11	ANTENNA, FERRITE-ROD (MW)
L4	1-406-040-00	COIL (OSC)
L101	1-407-961-00	MICRO INDUCTOR 2.7MMH
L201	1-407-961-00	MICRO INDUCTOR 2.7MMH
M901	1-541-330-11	(DECK A)...MOTOR (CW)
M902	1-541-317-11	(DECK B)...MOTOR
MIC	8-814-186-00	MICROPHONE UNIT (C-1014)
Q1	8-729-194-57	TRANSISTOR 2SC945-P
Q101	8-729-900-80	TRANSISTOR DTC114ES
Q201	8-729-900-80	TRANSISTOR DTC114ES
Q301	8-729-194-57	TRANSISTOR 2SC945-P
Q302	8-729-900-80	TRANSISTOR DTC114ES
Q303	8-729-194-57	TRANSISTOR 2SC945-P
Q305	8-729-900-80	TRANSISTOR DTC114ES
Q306	8-729-100-12	TRANSISTOR 2SC2001-L
Q307	8-729-194-57	TRANSISTOR 2SC945-P
Q310	8-729-173-37	TRANSISTOR 2SA733-P
Q311	8-729-194-57	TRANSISTOR 2SC945-P
Q312	8-729-194-57	TRANSISTOR 2SC945-P

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

Les composants identifiés par une trame et une marque  sont critiques pour la sécurité. Ne les remplacer que par une pièce portant le numéro spécifié.

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
Q313	8-729-173-37	TRANSISTOR 2SA733-P			
Q314	8-729-194-57	TRANSISTOR 2SC945-P			
Q315	8-729-194-57	TRANSISTOR 2SC945-P			
Q320	8-729-173-37	TRANSISTOR 2SA733-P			
R1	1-249-409-11	METAL	220	5%	1/6W
R2	1-249-397-11	METAL	22	5%	1/6W
R3	1-249-409-11	METAL	220	5%	1/6W
R4	1-247-849-00	METAL	5.6K	5%	1/6W
R5	1-249-433-11	METAL	22K	5%	1/6W
R6	1-249-433-11	METAL	22K	5%	1/6W
R7	1-249-435-11	METAL	33K	5%	1/6W
R8	1-249-421-11	METAL	2.2K	5%	1/6W
R9	1-249-441-11	METAL	100K	5%	1/6W
R10	1-215-418-00	METAL	750	5%	1/6W
R11	1-249-402-11	METAL	56	5%	1/6W
R12	1-249-417-11	METAL	1K	5%	1/6W
R13	1-249-429-11	METAL	10K	5%	1/6W
R14	1-249-422-11	METAL	2.7K	5%	1/6W
R15	1-215-477-00	METAL	220K	5%	1/6W
R16	1-249-423-11	METAL	3.3K	5%	1/6W
R17	1-249-423-11	METAL	3.3K	5%	1/6W
R18	1-249-435-11	METAL	33K	5%	1/6W
R20	1-215-448-00	METAL	13K	5%	1/6W
R21	1-215-448-00	METAL	13K	5%	1/6W
R26	1-249-421-11	METAL	2.2K	5%	1/6W
R27	1-249-441-11	METAL	100K	5%	1/6W
R28	1-249-441-11	METAL	100K	5%	1/6W
R29	1-249-411-11	METAL	330	5%	1/6W
R103	1-249-429-11	METAL	10K	5%	1/6W
R104	1-249-405-11	METAL	100	5%	1/6W
R105	1-249-429-11	METAL	10K	5%	1/6W
R106	1-249-429-11	METAL	10K	5%	1/6W
R107	1-249-421-11	METAL	2.2K	5%	1/6W
R109	1-249-429-11	METAL	10K	5%	1/6W
R110	1-249-421-11	METAL	2.2K	5%	1/6W
R112	1-249-408-11	METAL	180	5%	1/6W
R113	1-215-464-00	METAL	62K	5%	1/6W
R114	1-249-429-11	METAL	10K	5%	1/6W
R115	1-249-413-11	METAL	470	5%	1/6W
R117	1-249-421-11	METAL	2.2K	5%	1/6W
R118	1-249-402-11	METAL	56	5%	1/6W
R119	1-247-403-11	METAL	68	5%	1/6W
R122	1-249-429-11	METAL	10K	5%	1/6W
R125	1-247-849-00	METAL	5.6K	5%	1/6W
R203	1-249-429-11	METAL	10K	5%	1/6W
R204	1-249-405-11	METAL	100	5%	1/6W

ELECTRICAL PARTS

Ref.No.	Part No.	Description			
R205	1-249-429-11	METAL	10K	5%	1/6W
R206	1-249-429-11	METAL	10K	5%	1/6W
R207	1-249-421-11	METAL	2.2K	5%	1/6W
R209	1-249-429-11	METAL	10K	5%	1/6W
R210	1-249-421-11	METAL	2.2K	5%	1/6W
R212	1-249-408-11	METAL	180	5%	1/6W
R213	1-215-464-00	METAL	62K	5%	1/6W
R214	1-249-429-11	METAL	10K	5%	1/6W
R215	1-249-413-11	METAL	470	5%	1/6W
R217	1-249-421-11	METAL	2.2K	5%	1/6W
R218	1-249-402-11	METAL	56	5%	1/6W
R219	1-249-403-11	METAL	68	5%	1/6W
R222	1-249-429-11	METAL	10K	5%	1/6W
R225	1-247-849-00	METAL	5.6K	5%	1/6W
R301	1-249-412-11	METAL	390	5%	1/6W
R302	1-249-413-11	METAL	470	5%	1/6W
R303	1-249-413-11	METAL	470	5%	1/6W
R304	1-249-410-11	METAL	270	5%	1/6W
R305	1-249-441-11	METAL	100K	5%	1/6W
R306	1-249-417-11	METAL	1K	5%	1/6W
R307	1-249-441-11	METAL	100K	5%	1/6W
R308	1-249-409-11	METAL	220	5%	1/6W
R309	1-247-849-00	METAL	5.6K	5%	1/6W
R310	1-249-429-11	METAL	10K	5%	1/6W
R311	1-249-429-11	METAL	10K	5%	1/6W
R314	1-249-441-11	METAL	100K	5%	1/6W
R315	1-249-429-11	METAL	10K	5%	1/6W
R316	1-249-402-11	METAL	56	5%	1/6W
R320	1-249-421-11	METAL	2.2K	5%	1/6W
R321	1-249-429-11	METAL	10K	5%	1/6W
R322	1-247-849-00	METAL	5.6K	5%	1/6W
R324	1-249-429-11	METAL	10K	5%	1/6W
R325	1-217-383-00	FUSIBLE	4.7	5%	1/4W F
R326	1-249-405-11	METAL	100	5%	1/6W
R327	1-249-411-11	METAL	330	5%	1/6W
R328	1-249-429-11	METAL	10K	5%	1/6W
R329	1-249-393-11	METAL	10	5%	1/6W
R330	1-249-412-11	METAL	390	5%	1/6W
R337	1-249-410-11	METAL	270	5%	1/6W
R338	1-249-415-11	METAL	680	5%	1/6W
R343	1-247-849-00	METAL	5.6K	5%	1/6W
R344	1-249-429-11	METAL	10K	5%	1/6W
R345	1-249-441-11	METAL	100K	5%	1/6W
R346	1-249-429-11	METAL	10K	5%	1/6W
R347	1-249-429-11	METAL	10K	5%	1/6W

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SEE ADDITIONAL
INFORMATION

ELECTRICAL PARTS

Ref.No.	Part No.	Description
R348	1-249-429-11	METAL 10K 5% 1/6W
R349	1-249-429-11	METAL 10K 5% 1/6W
R350	1-249-429-11	METAL 10K 5% 1/6W
R351	1-249-429-11	METAL 10K 5% 1/6W
R352	1-249-429-11	METAL 10K 5% 1/6W
R353	1-249-429-11	METAL 10K 5% 1/6W
R354	1-249-429-11	METAL 10K 5% 1/6W
R355	1-249-429-11	METAL 10K 5% 1/6W
R356	1-249-429-11	METAL 10K 5% 1/6W
R357	1-247-849-00	METAL 5.6K 5% 1/6W
R363	1-249-437-11	METAL 47K 5% 1/6W
R364	1-249-421-11	METAL 2.2K 5% 1/6W
R366	1-249-441-11	METAL 100K 5% 1/6W
R371	1-249-402-11	METAL 56 5% 1/6W
R375	1-249-429-11	METAL 10K 5% 1/6W
RV1	1-228-993-00	RES, ADJ, CARBON 4.7K
RV101	1-230-093-00	RES, VAR, CARBON 20K/20K
RV102	1-237-570-11	RES, VAR
RV301	1-228-991-00	RES, ADJ, CARBON 2.2K
RV302	1-228-990-00	RES, ADJ, CARBON 1K
RV303	1-228-990-00	RES, ADJ, CARBON 1K
RV304	1-228-991-00	RES, ADJ, CARBON 2.2K
S1	1-570-347-11	SWITCH, LEVER SLIDE
S301	1-570-942-11	SWITCH, SLIDE
S302	1-570-944-11	SWITCH, LEVER SLIDE
S303	1-570-068-11	SWITCH, PUSH (1 KEY)
S501	1-554-495-00	SWITCH, LEAF
S502	1-570-012-11	SWITCH, LEAF
S601	1-554-495-00	SWITCH, LEAF
S602	1-570-012-11	SWITCH, LEAF
SP901	1-503-750-11	SPEAKER (LEFT)
SP902	1-503-750-11	SPEAKER (RIGHT)
T1	1-403-872-00	I.F.T CONVERTER FM (SMALL TYPE)
T2	1-404-249-00	COIL, FM DETECTOR
T3	1-404-158-00	COIL, IFT
T301	1-433-222-00	TRANSFORMER, BIAS OSCILLATOR
T801	1-448-781-11	TRANSFORMER, POWER

ACCESSORY & PACKING MATERIAL

Part No.	Description
A.1-559-237-11	CORD, POWER
3-339-387-01	CUSHION (UPPER)
3-339-388-01	CUSHION (LOWER)
3-337-865-02	SHEET, PROTECTION
3-339-353-01	(US).....INDIVIDUAL CARTON
3-341-107-01	(Canadian)...INDIVIDUAL CARTON
3-341-137-01	CUSHION (FRONT)
3-701-626-00	BAG, POLYETHYLENE
3-703-390-01	(US)...INSTRUCTION
3-765-963-21	MANUAL, INSTRUCTION
3-795-748-21	(US)...SAFETY INSTRUCTIONS, HEADPHONE

The components identified by shading and mark  are critical for safety. Replace only with part number specified.

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SERVICE MANUAL

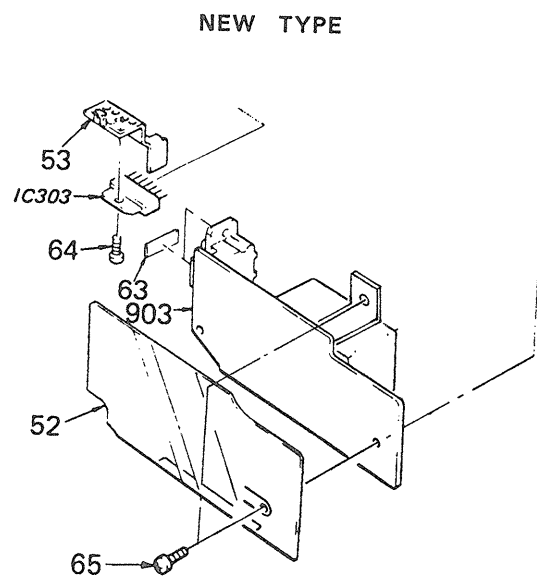
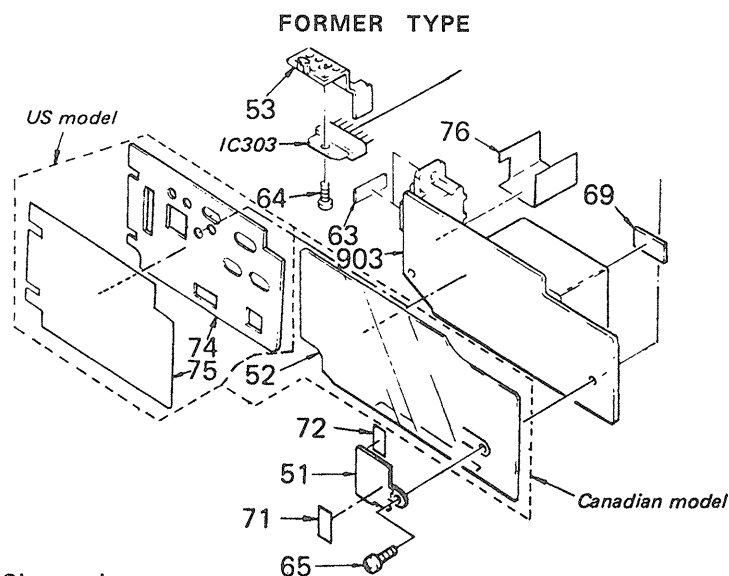
US Model
Canadian Model

No.1

SUPPLEMENT

File this supplement with the service manual.

Subject : Power Block change



Changed parts.
Page.22

No.	FORMER TYPE		NEW TYPE		Remark
	Part No.	Description	Part No.	Description	
51	3-340-354-01	CLAMP,POWER PC BOARD			DELETE
66	7-621-770-87	SCREW +B 2.6×5	7-621-775-25	SCREW +B 2.6×5	CHANGE
69	4-836-922-01	RETAINER,PHONO CORD			DELETE
71	4-883-473-00	SPACER,CASSETTE LID			DELETE
72	9-911-840-XX	(Canadian) ••• CUSHION (A)			DELETE
74	3-341-140-01	(US) ••• INSULATOR, POWER PC BOARD			DELETE
75	3-341-139-01	(US) ••• SHEET,PROTECTION, POWER PC BOARD			DELETE
76	3-341-138-01	(US) ••• CLAMP,AC INLET			DELETE

FM/AM
STEREO CASSETTE-CORDER
SONY®

TC

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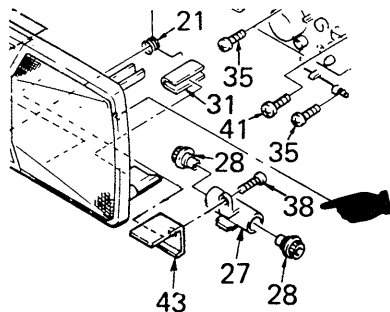
No.	FORMER TYPE		NEW TYPE		Remark
	Part No.	Description	Part No.	Description	
44	3-341-114-01	SPRING,TENSION			DELETE

Page.28

Ref.No.	FORMER TYPE		NEW TYPE		Remark
	Part No.	Description	Part No.	Description	
T801	1-448-781-11	TRANSFORMER,POWER	1-448-902-12	TRANSFORMER,POWER	CHANGE

Following parts have been changed in both former type and new type.

Changed parts.

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No.	Part No.	Description	Remark
38	7-685-649-79	SCREW +BVTP 3×14 TYPE2, IT-3	CHANGE
39	7-685-133-19	SCREW +BTP 2,6×6 TYPE2, N-S	CHANGE

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No.	Part No.	Description	Remark
65	7-685-648-79	SCREW +BVTP 3×12 TYPE2, N-S	CHANGE
73			DELETE

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Ref.No.	Part No.	Description	Remark
L2	1-422-347-11	COIL,AIR-CORE	CHANGE

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Part No.	Description	Remark
3-765-963-31	(Canadian) ••• MANUAL,INSTRUCTION	ADDITION

SONY SERVICE MANUAL

US Model
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SUPPLEMENT-2

File this supplement with the service manual.

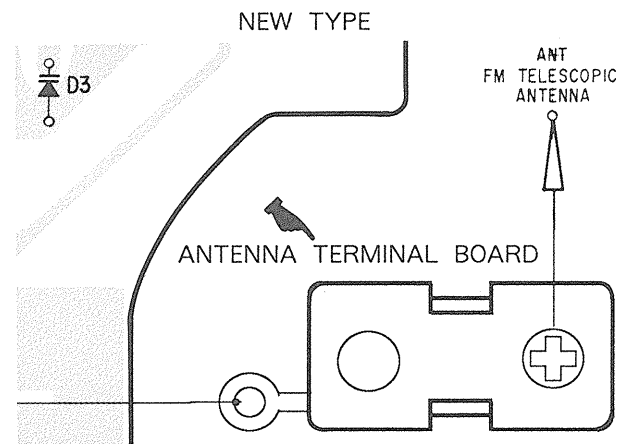
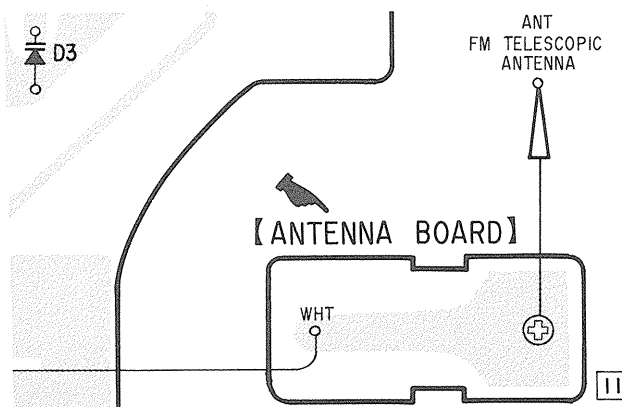
Subject : Antenna board change

● Antenna board has been changed to Antenna terminal board.

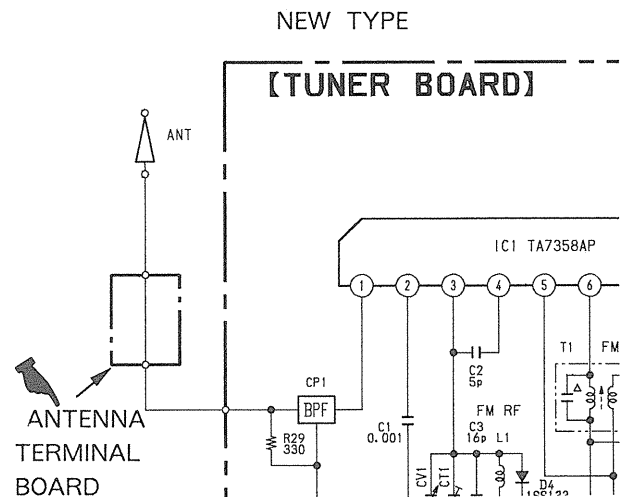
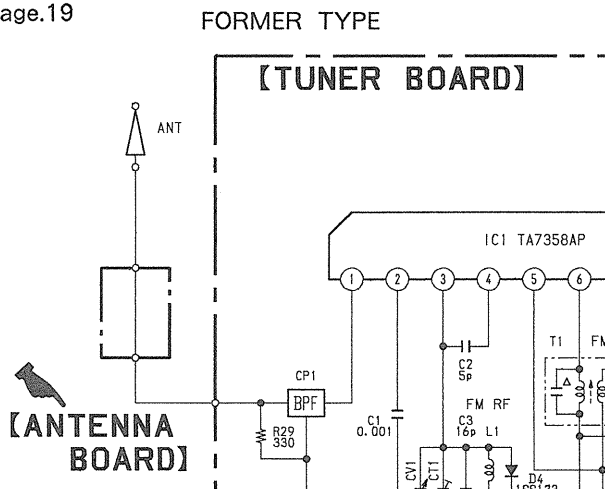
Page 22 , 25

No.	FORMER TYPE		NEW TYPE	
	Part No.	Description	Part No.	Description
905	*1-622-092-11	PC BOARD,ANTENNA	*3-341-184-01	TERMINAL BOARD,ANTENNA

MOUNTING DIAGRAM — TUNER SECTION —
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SCHEMATIC DIAGRAM — TUNER SECTION —
Page.19



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*US Model
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SUPPLEMENT-3

File this Supplement with the Service Manual.

**Subject : Change of cabinet (front), cabinet (rear),
cassette holder, and telescopic antenna
in US model**

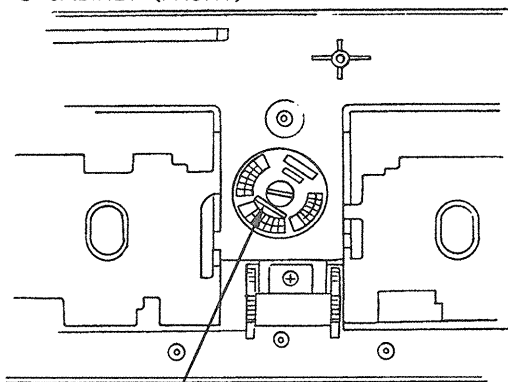
The parts shown in table 1 have been changed on the production.

There is no interchangeability between former parts and new parts, so take care to change the parts.

1. Distinction between former parts and new parts

New parts are distinguished from former parts by parts number of MOLDER mark carved on the inside of cabinet (front) and cabinet (rear).

● CABINET (FRONT)

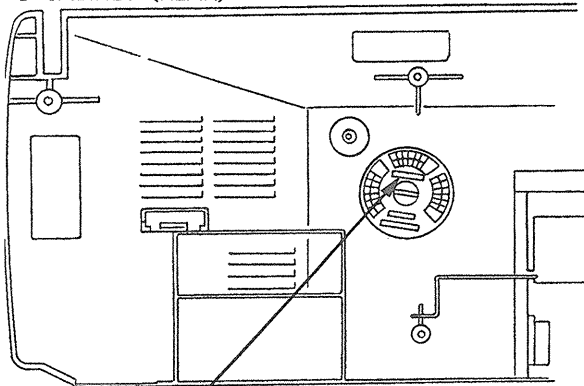


Part number of MOLDER mark

Former Type : 3-340-377

New Type : 3-340-352

● CABINET (REAR)

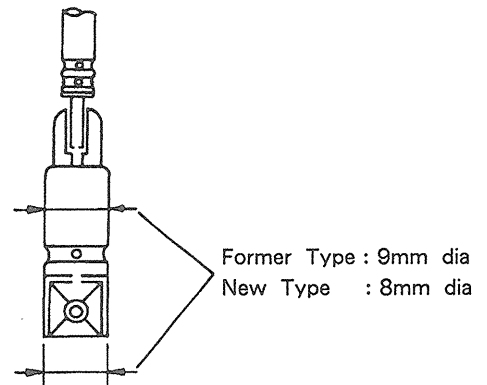


Part number of MOLDER mark

Former Type : 3-340-378

New Type : 3-339-301

2. Distinction of telescopic antenna



Page	No.	Former Type		New Type	
		Part No.	Description	Part No.	Description
21	1	A-3247-276-A	HOLDER (RIGHT) ASSY,CASSETTE	A-3247-250-A	HOLDER (RIGHT) ASSY,CASSETTE
21	2	A-3247-275-A	HOLDER (LEFT) ASSY,CASSETTE	A-3247-248-A	HOLDER (LEFT) ASSY,CASSETTE
21	3	A-3241-622-A	CABINET (FRONT) SUB ASSY	A-3241-924-A	CABINET (FRONT) SUB ASSY
22	58	3-340-378-01	(US) ...CABINET (REAR)	3-339-301-01	(US) ...CABINET (REAR)
22,25	ANT	1-501-378-11	ANTENNA,TELESCOPIC	1-501-337-11	ANTENNA,TELESCOPIC

Table 1

Correct the Part No. as shown below.

 : corrected portion

Page	No.	INCORRECT	CORRECT	
		Part No.	Part No.	Description
22,25	906	*A-3266- ~~396~~ -A 	*A-3266- ~~397~~ -A 	PC BOARD ASSY,TUNER

CFS-W301

SONY[®] SERVICE MANUAL

*US Model
Canadian Model
E Model*

SUPPLEMENT-4

File this Supplement with the Service Manual.

Subject : E model is added in CFS-W301.

E model is the almost same as CFS-W301 (US model : new type).
Refer to CFS-W301 (US model : new type) Service Manual previously issued for the information of E model.

CFS-W301

SONY SERVICE MANUAL

US Model
Canadian Model

CORRECTION-1

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT		
22 • 25	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>No.</u>	<u>Part No.</u>	<u>Description</u>
	906	*A-3266-396-A	PC BOARD ASSY, TUNER	906	*A-3266- <u>397</u> -A	<u>MOUNTED PCB</u> , TUNER
						

CFS-W301

SONY SERVICE MANUAL

US Model
Canadian Model

CORRECTION- 2

Correct your service manual as shown below.

 : indicates corrected portion.

Page	INCORRECT			CORRECT	
	<u>No.</u>	<u>Part No.</u>	<u>Description</u>	<u>Part No.</u>	<u>Description</u>
22	76	3-341-138-01	(US) . . . CLAMP, AC INLET	_____	not supplied _____